



Accelerating the pace of precision medicine

Molecular Pathology Workflow Solutions

Catalog 2018



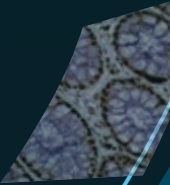
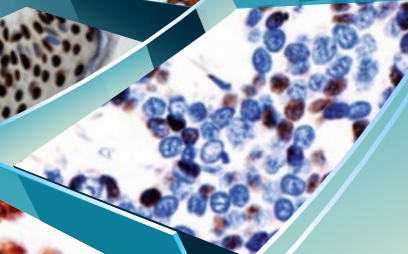
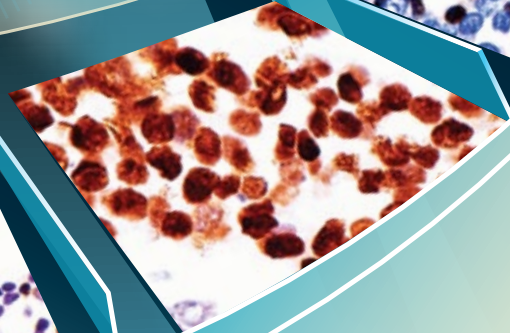
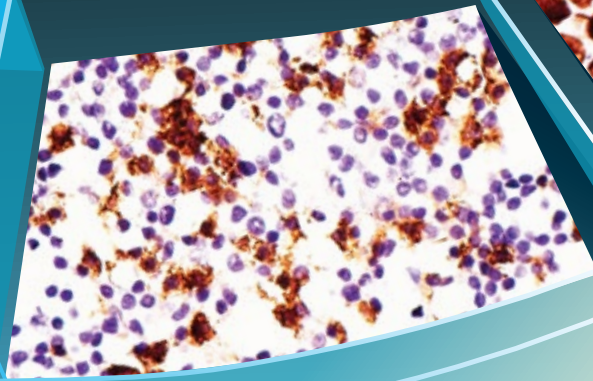
IHC

ISH

FISH

miRNA

SS





Dear Customer,

We are pleased to present the BioGenex Molecular Pathology Catalog for 2018 - 2019. As a vertically integrated company, we develop, manufacture and market highly innovative and fully automated systems for cancer diagnosis, prognosis and therapy selection.

Xmatrx® systems redefine complete automation for the molecular pathology laboratory and standardize the protocol from baking through final cover-slipping in three simple steps - Load, Click and View. Compared to any other system on the market, Xmatrx® systems offer clean intense stain(s), automate more assay steps, and enable automation of technologies for the future molecular pathology laboratory.

- Xmatrx® ELITE integrates All-in-One staining of IHC, ISH, special stains and beyond
- Xmatrx® Infinity is a high-performance staining platform for life sciences and translational research
- Xmatrx® ULTRA Dx is the next-generation system with new features such as Auto Drain, Auto DAB mixing and with new technologies
- Xmatrx® ULTRA Rx is the next-generation system with new features and technologies, life sciences and translation research
- Xmatrx® NANO VIP is a ten-slide automated system specifically designed for FISH
- Xmatrx® MINI enables *in situ* PCR and nucleic acid hybridization with tools for building micro-chamber

We also offer a series of i6000™ systems with very high throughput: 200 slides in an 8-hour shift.

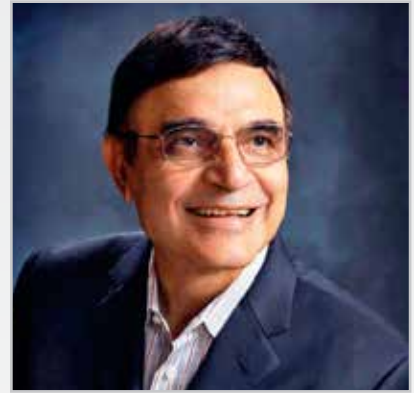
To maintain our tradition of offering superior solutions for the emerging needs of your laboratory, we offer a broad range of molecular pathology products for IHC, ISH, miRNA, multiplex and special staining of tissues including 400+ primary antibodies, molecular probes, detection systems, and ancillaries. These are offered for standardized, reliable and consistent results to support the needs of molecular pathology laboratories of today, tomorrow and beyond.

BioGenex is committed to the core values of innovation, reliability, productivity, quality, superior after sales support and service for complete customer satisfaction. These values are represented by our company's colors that stand for "energy and innovation" (orange) and "reliability" (blue). We unconditionally guarantee all of our products and services.

I invite you to learn more about our exciting products and future development through this catalog and our new website at www.biogenex.com. Should you have any suggestions for improving our products and services, I encourage you to write me directly at k.kalra@biogenex.com.

Give us an opportunity and experience the difference.

Warm Regards,
Krishan Kalra, Ph.D.
CEO



“ To become a global molecular medicine company providing affordable solutions for life science research and personalized medicine ”

Dr. Krishan Kalra

- Innovation
- Quality
- Service
- Reliability
- Productivity



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For latest product offerings visit our website www.biogenex.com or contact our customer support: customer.service@biogenex.com



Overview

BioGenex celebrated its 36th anniversary serving the anatomic pathology market. We take great pride in providing premier service and support while bringing new and technologically advanced products to the market.

BioGenex provides a “Total Solution” for slide-based cell and tissue analysis. Our products include a wide variety of antibodies, highly sensitive detection kits, and probes for ISH. Our automated systems streamline operations in molecular and cellular pathology laboratories, providing effective tools for the detection and diagnosis of cancer and other diseases. BioGenex continues to innovate as evidenced by the launch of the Xmatrix® Staining System which provides complete automation “From Microtome to Microscope”.

We are committed to providing our customers and our distributors with flexible, innovative and cost-effective tools for clinical diagnostics, life science research and drug discovery.

Service

We value you and your business. We want our relationship to be one of total satisfaction. Our Technical Support Specialists provide fast troubleshooting advice and technical information and they are responsive to your individual needs. Just visit our website at www.biogenex.com, send an e-mail to support@biogenex.com or call toll free at 1-(800)-421-4149 from 7:00 AM to 4:00 PM (PST), Monday through Friday, with your request.

Quality

BioGenex is committed to excellence by providing high-quality products. We offer a broad range of products which are manufactured using state-of-the-art equipment in controlled environments. They are stringently tested to ensure that they meet or exceed functional, dimensional, and environmental requirements and are compliant with federal regulations. Our automated systems are designed for high-throughput at a low cost of ownership. They provide consistent quality results with ease of use and maximum flexibility for clinical diagnostics, life science research, and drug discovery markets.

Reliability

BioGenex products give consistent, reproducible and reliable results. Our automated systems are highly reliable and dependable, giving our customer peace of mind.

Innovation

BioGenex has a rich history of innovation in the field of Immunohistochemistry (IHC) and *In situ* Hybridization (ISH). BioGenex has a strong intellectual portfolio, consisting of several US and foreign-issued patents, in the areas of

- DNA labeling and amplification
- Antigen retrieval and deparaffinization
- Automation of tissue and cell sample preparation
- Automated IHC, and staining of nucleic acids
- Antigen retrieval and nucleic acid retrieval for tissues

Productivity

BioGenex has automated cell and tissue analysis to accelerate clinical diagnostics and drug discovery development. We have developed the total walk-away, industrial scale automated systems to streamline and standardize an array of processes for cell and tissue testing in IHC, ISH/CISH, FISH, and image analysis applications. We offer a “Total Solution” automating every aspect of the histology slide preparation “From Microtome to Microscope”. These technologies significantly increase laboratory operation productivity for clinical diagnostics, drug discovery and life sciences research applications by providing high-quality staining and imaging solutions.



Ordering Information

BioGenex Customer Service

Please call our Customer Service department from 07:00 A.M. to 04:00 P.M. (PST), Monday through Friday, to place an order or to inquire about an existing order.

Telephone (toll-free)	1-(800)-421-4149 (Option 1)
Fax	1-(510)-824-1490
Online Orders	www.biogenex.com
E-mail	customer.service@biogenex.com
Mail Orders	BioGenex Laboratories, Inc. Attention to: Customer Service 49026 Milmont Drive Fremont, CA 94538

Quote request can also be placed via our website. To expedite the order process, please include the following information on your purchase order or correspondence:

- Purchase order number
- Customer number
- Name, phone and fax number of person ordering
- Shipping address (please do not use P.O. Box number)
- Billing address (if different from above)
- Name of product, catalog number, quantity, and price
- Special shipping instructions
- Credit card number and expiration date (for credit card payments)

International Orders

To place an order from outside the US, please contact your local BioGenex channel partner/distributor. For online orders please visit our website www.biogenex.com For countries where BioGenex does not have any channel partners/distributors, please e-mail us at internationalcs@biogenex.com

Opening a New BioGenex Account

First time orders paid by credit card (see under Payment) will be processed and shipped immediately. For other payment methods please accept a delivery time of up to five business days for credit verification purposes.

Credit Terms

Net 30 days in U.S. Dollars, upon approval. Overdue accounts are subject to a finance charge of 1.5% per month (18% per annum).

Confirming Orders

To avoid duplication of your shipment, please mark boldly "confirming order - please do not ship" on your order.

Pricing

All prices are quoted in U.S. dollars, exclusive of state and county sales tax, where applicable. Prices are valid only for shipments within U.S. and are subject to change without notice. Please inquire about our standing order and quantity discount policies.

Shipping

Shipping and handling charges are prepaid and added to the invoice. They vary with the destination, weight and content, and are available upon request at order entry and are indicated on the invoice. Reagent orders received by 2:00 P.M. (PST), Monday through Thursday, will generally be Expedited Shipping for Next Day Delivery. Early A.M. and Saturday delivery is available upon request.

Payment

All payments must be made in U.S. dollars. The following methods of payment are accepted:

- Bank transfer (see invoice for instructions)
- Check, drawn on a U.S. bank, made payable to: "BioGenex Laboratories, Inc."
- MasterCard®
- Visa®
- American Express®

Return Policy

Reagents are covered by the following Total Quality Assurance policy which states:

If you are not completely satisfied with the quality of our reagents, you may return them to us along with poor stained slides and filled RMA form for a refund or replacement, at our option.

BioGenex' s liability is limited to a refund or replacement, at our option.

Please obtain a Return Material Authorization (RMA) number from Customer Service prior to the return of a product.

Returns, which are caused by unsatisfactory product performance, must be made within 30 days of delivery and will be subject to a 30% restocking fee.

Returns or replacements cannot be accommodated for expired products.

As BioGenex is an ISO13485 and USFDA compliant IVD manufacture, we can't accept returned products without return material authorization, RMA. All returned products without RMA will be trashed.



General Information

Web Site

For the latest information on new product releases listed pricing, special offers and for placing an online order, please visit our new website, www.biogenex.com

Customer Support

Our technical support and customer service specialists are ready to provide fast and detailed information for your questions and needs. Please call our toll-free number to reach us.

Customer Service USA

Tel: 1-(800)-421-4149 (Option 1)
Fax: 1-(510)-824-1490
E-mail: customer.service@biogenex.com

Technical Support USA

Tel: 1-(800)-421-4149 (Option 2)
Fax: 1-(510)-824-1490
E-mail: support@biogenex.com
Website: www.biogenex.com

Corporate Office

BioGenex Laboratories, Inc.
49026 Milmont Drive
Fremont, CA 94538
Tel: 1-(800)-421-4149
Fax: 1-(510)-824-1490

Corporate Business

For general business matters not related to product orders or inquiries, please call us at 1-(800)-421-4149 or fax your correspondence to our main corporate business fax: 1-(510) 824-1490.

Trademarks

The following are trademarks of BioGenex Laboratories, Inc. USA

BioGenex®	EZ-AR™
EZ-Retriever®	MultiLink®
Super Sensitive™	i6000™
EZ-DeWax™	GenoMx®
i500 Plus™	Xmatrx®
Power Block™	XMOUNT™
AccuSlide®	XViz™
OptiPlus™	Super Mount®
InSite®	XISH™
XWash™	

Additional Information

Nationwide Training Workshops

As a service to our customers, BioGenex has developed lectures and workshops on the full range of Immunohistochemistry and *in situ* Hybridization techniques. Please call our Technical Support Department or Regional Account Executive for more information on how you can participate in our educational workshops. Topics include the following:

- Basic Immunohistochemistry
- Cancer Panels
- Microwave-Based Antigen Retrieval
- ER/PR Immunostaining
- Troubleshooting
- Automation
- *in situ* Hybridization
- Double Staining
- Multiplexing and Co-detection of Protein and Nucleic Acid Biomarkers

Free Technical Literature

In addition to the educational brochures produced by BioGenex, we offer other technically useful information to the histopathology specialists on our website, www.biogenex.com where you can download our data sheet, product catalog or relevant presentation that may accompany each product assay protocols, kit instruction manuals and conference posters. Please call our Technical support department to request specific items or to add your name to our mailing list.

Technology Partnering Opportunities

We are always interested in licensing innovative technology that will be useful to our customers. If you are a researcher and have new antibody clones or other new diagnostic technologies please think of BioGenex as a potential partner in marketing your inventions and discoveries. We have the scientific expertise and marketing experience necessary for the successful commercialization of your technical achievements. BioGenex has an active Research and Development program fully staffed with PhD and MD professionals who are experienced in immunopathology, protein chemistry, and molecular biology. For more information on technology transfer opportunities, please contact us at customer.service@biogenex.com



Technical Information

All BioGenex products have been listed in this catalog under easily identifiable product groups. The products have also been indexed at end of the catalog under the following headings:

- Alphabetical Product Name Index
- Catalog Number Index
- Antibody Clone Index
- Listing By Categories

Symbol keys used in different sections have been defined on the same page for quick and easy reference.

The BioGenex Molecular Pathology Catalog 2018 - 2019 is also available on our website, www.biogenex.com





Automation





Automated Platforms for Molecular Pathology

BioGenex is a pioneer in the design, development and manufacturing of advanced systems for automation of cell and tissue-based staining. To accommodate diverse laboratory needs, we offer an array of clinical and research automation platforms that meet globally accepted quality standards (ISO13485:2003 & ISO9001:2008), are approved by the FDA and are specifically designed to improve laboratory workflow, productivity and reproducibility.

Xmatrx systems (NANO VIP, MINI, INFINITY, ELITE, ULTRA Rx and Dx) are the direct result of our innovative platform technology innovation. They offer a variety of automation, throughput and assay applications. Our key technology differentiators include the eXACT temperature control and reaction micro-chamber- improving IHC results and enabling Nucleic Acid-based Diagnostics (NADx).

i6000 ELITE systems (Rx and Dx) are robust high-throughput platforms for IHC and Special-Stains with staining capacity of 200 slides in 8 hours. These systems are supplied together with the EZ-Retriever®, for Microwave-based Dewaxing and Antigen Retrieval.

1. Clinical platforms support LIMS connectivity for data tracking and management, contain Barcode enabled technologies and include over 400+ optimized protocols with ready to use reagents in barcode labelled vials on xmatrx & i6000. These systems are FDA approved for In Vitro Diagnostic (IVD) applications including: immuno-histochemistry (IHC), in situ hybridization (ISH), co- detection and special staining.

Clinical Platforms /Application	IHC	ISH/CISH	Double Staining	Special Stains	IF
Xmatrx® ELITE	√	√	√	√	√
Xmatrx® ULTRA Dx	√	√	√	√	√
i6000™ Elite DX	√	NA	√	√	√

2. Research platforms offer infinite possibilities for translational and clinical research. They include flexible open system software for easily creating, editing and saving protocols and enable automation of any slide-based assay including immuno-histochemistry (IHC), in situ hybridization (ISH), fluorescence in situ hybridization (FISH), immuno-fluorescence (IF), co-detection and multiplex applications (double and triple stains; IHC/ISH), in situ PCR, micro-RNA and special staining.

Research Platforms /Application	IHC	ISH/CISH	Double Staining	Special Stains	FISH	IF	miRNA ISH	Multiplexing (ISH + IHC)	In Situ PCR
Xmatrx® Infinity	√	√	√	√	√	√	√	√	√
Xmatrx® ULTRA Rx	√	√	√	√	√	√	√	√	√
i6000™ ELITE RX	√	NA	√	√	NA	√	NA	NA	NA

3. Nucleic Acid Diagnostics (NAD) dedicated Platforms: Xmatrx NANO VIP and MINI, are the most economical and flexible automation platforms for FISH, ISH and *In-Situ* PCR. These systems are small in size, contain 10 independent eXACT™ thermal cyclers that can run 10 different protocols simultaneously. These instruments contain on-board wash and waste drainage systems, audio-visual alerts and a user-friendly software with ability to add or delete cycles, store protocols for future use and perform, deparaffinization, antigen retrieval, hybridization, washing and up to 45 PCR cycles.

NAD Platforms /Application	ISH/CISH	FISH	miRNA ISH	In Situ PCR
Xmatrx® NANO VIP	√	√	√	√
Xmatrx® MINI	√	√	√	√

4. Other Systems: The Ez-Retriever system is designed to work seamlessly with i6000, providing Eco-friendly De-waxing, Rehydration and Antigen Retrieval in one step, for high-throughput applications. The system provides uniform heating and optimized factory protocols, assuring clean, intense and reproducible staining results. The i500 Plus is a LIMS enabled Barcode label printer for integrated digitized data tracking.

Other Systems	Description
EZ-Retriever	Pre-treatment and Antigen Retrieval System Using a Programmable Microwave Oven with Build-In Temperature Control
i500 Plus	LIMS Enabled Barcode Label Printer Compatible with Xmatrx and i6000



Clinical Platforms

Xmatrix[®] ELITE

Microtome to Microscope



Three Simple Steps



Fully Automated System from Microtome to Microscope... For the Molecular Pathology Laboratory of Today, Tomorrow and Beyond

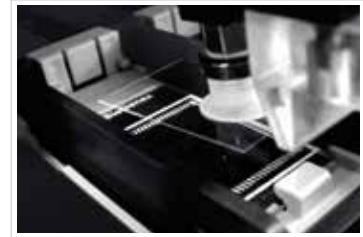
- 40 independent protocols simultaneously
- Fully Automated, including Baking, Dewaxing & Antigen Retrieval
- eXACT™ Temperature Control on Every Slide (RT-105°C)
- Bar-Coded reagent vials and slides to eliminates human errors
- Wide reagent dispense volumes: 10 µL to 850 µL
- BioGenex's proprietary coverslip mechanism
- Over 400+ optimized protocols with ready to use reagents
- LIMS - enabled data tracking and management
- Liquid level sensor for accurate reagent dispensing
- System allows use of 3rd party antibodies

* optional software



Xmatrix® ULTRADx

Next Generation Fully Automated Staining System



All-in-One - IHC, ISH, SS and Co-detection

Fully Automated System from Microtome to Microscope... For the Molecular Pathology Laboratory of Present, Future and Beyond

- Next generation fully-automated slide staining system with Baking, Dewaxing & Antigen Retrieval
- Auto-DAB enabled – On-board automated mixing of chromogen and buffer
- 40 independent protocols simultaneously
- Bar-Coded reagent vials and slides to eliminates human errors
- eXACT™ Temperature Control on Every Slide (RT-105°C)
- Wide reagent dispense volumes: 10 µL to 850 µL
- Auto drain disposal system
- Liquid level sensor for accurate reagent dispensing
- BioGenex's proprietary coverslip mechanism
- LIMS - enabled data tracking and management
- High throughput - 100 slides per day, 60 slides in eight-hour shift, and 40 slides in delayed overnight run
- Over 400 optimized protocols with ready to use reagents in barcoded vials
- Intuitive software designed for ease of use and flexibility
- System allows use of 3rd party antibodies
- Multiple slide processing options – Random, Continuous and STAT
- Work Flow status indicator

*Expected release: 2018



i6000™ ELITE Dx

Walkaway IHC Staining System



IHC, Multiplex and Special Stains System

- Clean, crisp and intense stains
- High throughput - Up to 200 slides in eight-hour shift, 60 slides in 3 hours
- Over 400+ optimized protocols with ready-to-use reagents in barcoded vials
- Dispense reagents as low as 100µL/slide
- Multiple slide processing options - Random, Continuous and STAT
- Multi-format specimen processing - FFPE or frozen tissues, cell preparations, fine needle aspirates, smears and more...
- Color-coded GUI with real-time assay parameter display for all slides
- Customized or standard reports for inventory management and regulatory compliance and submission



Clinical Platforms Specification

Specifications	Xmatrx ULTRA Dx*	Xmatrx ELITE	i6000 ELITE Dx
Automation	Full (baking through cover slip)	Full (baking through cover slipping)	Automated. Supplied with EZ-Retriever® for Dewax & Antigen retrieval
Run Time (full slide load)	5.5 hours	5.5 hours	2.5 hours
Throughput (8 hours)	60 slides	60 slides	200 slides
Temperature Range	Ambient to 105°C	Ambient to 105°C	NA
Reagent Dispensing Volume	10-850µl	10-850 µl	100-1000 µl
Slide Capacity	40	40	60
Reagent Capacity	42	49	60
Reader	Barcode	Barcode	Barcode
Bulk Reagent Carboy	7 x 4 L	7 x 4 L	2 x 10 L
Waste Container	20 L	8 L	20 L
Languages enabled	English	English	English, Chinese, German
LIMS - enabled data tracking and management	√	√	√
Protocols	>400, preloaded	>400, preloaded	>400, preloaded
Dimensions (D/W/H)	30"/43"/54"	29"/46"/59"	24"/40.5"/18.5"
Weight	419 lb / 190 kg	400 lb/ 182 kg	130 lb / 59 kg

*Expected release: 2018



Research Platforms

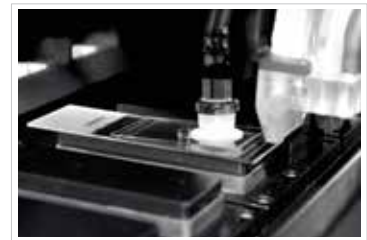
Xmatrix[®] Infinity

Infinite Possibilities...

...For Translational and Clinical Research



Step	Step Name	Step Type	Step ID	Step Description	Step Parameters	Step Status	Step Order
1	Wash	Wash	1.1	Wash	1.1.1	Completed	1
2	Hybridize	Hybridize	2.1	Hybridize	2.1.1	In Progress	2
3	Wash	Wash	3.1	Wash	3.1.1	Completed	3
4	Hybridize	Hybridize	4.1	Hybridize	4.1.1	In Progress	4
5	Wash	Wash	5.1	Wash	5.1.1	Completed	5



Slide ID	Slide Name	Slide Type	Slide Description	Slide Status	Slide Order
1	Slide 1	Slide	Slide 1	Completed	1
2	Slide 2	Slide	Slide 2	In Progress	2
3	Slide 3	Slide	Slide 3	Completed	3
4	Slide 4	Slide	Slide 4	In Progress	4
5	Slide 5	Slide	Slide 5	Completed	5

All-in-One - IHC, IF, ISH, CISH, FISH, SS, *in situ* PCR and miRNA...

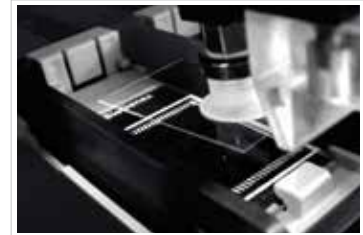
- Intelligent and flexible system offering infinite possibilities – IHC, ISH, FISH, SS, CISH, IF, Multiplexing and Co-detection
- Simultaneous optimization of up to 40 parameters in single run
- Reaction micro-chamber reduces micro-reagent consumption by up to 90%
- 40 independent thermocyclable (PCR) workstations
- Intuitive software designed for ease of use and flexibility
- Reports for inventory management and regulatory compliance
- Multiple slide processing options – Random, Continuous and STAT



Xmatrix® ULTRARx

Infinite Possibilities...

...For Translational and Clinical Research



All-in-One - IHC, IF, ISH, CISH, SS, FISH, *in situ* PCR and miRNA...

- Intelligent and flexible offering infinite possibilities - IHC, ISH, FISH, IF, SS, Multiplexing and co-detection
- Auto-DAB enabled – On-board automated mixing of chromogen and buffer
- Simultaneous optimization of up to 40 parameters in single run
- Reaction micro-chamber reduces micro-reagent consumption by up to 90%
- eXACT™ Temperature Control on Every Slide (RT-105°C)
- Intuitive software designed for ease of use and flexibility
- Reports for inventory management and regulatory compliance
- Multiple slide processing options – Random, Continuous and STAT
- Wide reagent dispense volumes: 850 µL
- Ease waste disposal system
- Liquid level sensor for accurate reagent dispensing
- BioGenex's proprietary coverslip mechanism
- Work Flow status indicator

*Expected release: 2018



i6000™ ELITE Rx

Multifunctional Staining System for Research



Multi-functional System - Multiplex IHC, IF and Special Stains

- Fully open system to customize any manual protocol
- Simultaneous optimization of up to 60 assay parameters
- Disposable pipette tips – eliminates cross contamination
- Audio and visual alerts at every step for manual intervention
- Customized reporting system for detailed report generation
- Multiple slide processing options – Random, Continuous and STAT



Research Platforms Specification

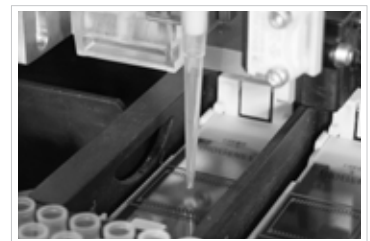
Specifications	Xmatrx ULTRA Rx	Xmatrx Infinity	i6000 ELITE Rx
Automation	Full (baking through cover slip)	Full (baking through cover slip)	Automated staining
Run Time (full slide load)	Open System / User defined	Open System / User defined	Open System / User defined
Temperature Range	Ambient to 105 °C	Ambient to 105 °C	NA
Reagent Dispensing Volume	10-850 µl	10-850 µl	100-1000 µl
Slide Capacity	40	40	60
Reagent Capacity	42	49	60
Bar Code Reader	NA	NA	NA
Bulk Reagent Carboy	7 x 4 L	7 x 4 L	2 x 10 L
Waste Container	20 L	8 L	20 L
Auto Drain	√	NA	NA
Languages enabled	English	English	English, Chinese, German
LIMS - enabled data tracking and management	√	√	√
Auto DAB	√	NA	NA
Ease of slide loading	√	NA	NA
Protocols	Template / Self	Template / Self	Template / Self
Dimensions (D/W/H)	30"/43"/54"	29"/46"/59"	24"/40.5"/18.5"
Weight	400 lb/ 182 kg	400 lb/ 182 kg	130 lb / 59 kg



Nucleic Acid Diagnostic (NAD) Platforms

Xmatrix[®] NANOVIP

eFISHiency System for FISH Automation



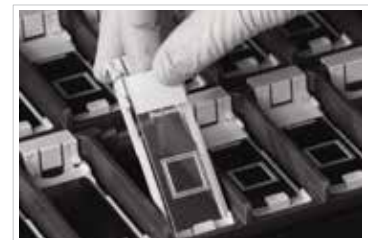
All-in-One - IHC, IF, ISH, CISH, SS, FISH, *in situ* PCR and miRNA...

- Next generation fully-automated slide staining system
- Economical and affordable
- Flexible Open System Software - create, edit and save protocols for future use
- Simultaneous Optimization of 10 different protocols at the same time
- eXACT™ Temperature Control on Every Slide (RT-105)
- Wide reagent dispense volumes: 10 μ L to 850 μ L
- Liquid level sensor for accurate reagent dispensing
- BioGenex's proprietary coverslip mechanism
- Intuitive software designed for ease of use and flexibility



Xmatrix[®] MINI

eFISHiency Workstation



All-in-One - FISH, *in situ* PCR and ISH

- High performance *in situ* PCR and FISH
- Hybridizer with eXACT™ temperatures
- 10 independent thermal cyclers
- Built-in touch screen display for easy operations
- Facility of on-board wash with effective waste drainage system
- Audio-visual alerts and on screen color-coded error alerts
- User-friendly software with ability to add/delete cycles, store protocols for future use and perform up to 45 PCR cycles



Nucleic Acid *In Situ* Research Platform Specification

Specifications	Xmatrx NANO VIP	Xmatrx MINI
Automation	Full Automation	Work Station
Run Time (full slide load)	Open System / User defined	Open System / User defined
Temperature Range	Ambient to 105°C	Ambient to 105°C
Reagent Dispensing Volume	10-850 uL	NA
Slide Capacity	10	10
Reagent Capacity	24	NA
Bar Code Reader	NA	NA
Bulk Reagent Carboy	6 x 1 L	NA
Waste Container	4 L	2 L
Touch Screen	NA	√
Languages enabled	English, Italian	English, Italian
LIMS - enabled data tracking and management	√	√
Protocols	Template / Self	Template / Self
Dimensions (D/W/H)	20"/30"/20"	19.5"/13"/8"
Weight	106 lb/ 48 kg	30 lb/ 13.6 kg



eFISHiency - FISH Made Easy

Integrated Workflow Solutions for Optimizing Productivity

Xmatrix[®]ELITE

Microtome to Microscope

- The world's first and only fully automated front-end FISH processing system
- Run up to 40 slides under multiple protocols
- Reduce hands-on tech time from 7.5 hours to 30 minutes

33 Steps Reduced to 3



Xmatrix[®]NANOVIP

eFISHiency System for FISH Automation

- On-board dewaxing, oil seal and final coverslip after DAPI
- Add micro-reagents manually to save cost
- Run 10 different protocols at the same time

33 Steps Reduced to 4



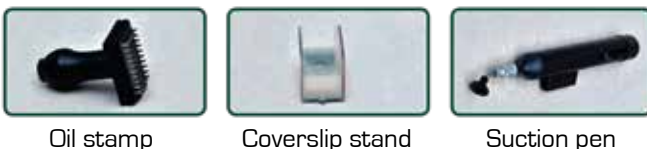
Xmatrix[®]MINI

eFISHiency Workstation

- eFISHiency Workstation for manual FISH assay
- Hybridizer with eXACT™ temperatures
- 10 Independently programmable thermal cyclers
- Built-in touch screen display
- Manual coverslip application and removal



Accessories



Oil stamp

Coverslip stand

Suction pen





Other Systems

i500 Plus™

LIS Enabled Barcode Label Printer

Integrated Digitized Data Tracking System

- For printing chemical resistant barcode labels
- Compatible with Xmatrix® and i6000™
- User-friendly software
- Synchronization of protocol information
- Efficient system
 - Eliminates human error
 - Helps reduce operating cost
 - Fast turn-around



EZ-Retriever® System

Pre-treatment and Antigen Retrieval System

- DeWax, re-hydration and antigen retrieval in one step
- Optimized factory protocols
- User-defined protocols
- High throughput - 96 slides in 20 minutes
- Microwavable containers
- Programmable time and temperature controls
- Built-in probe measures solution temperature in real time
- Time saving and uniform heating
- Eco-friendly solutions





Automated Staining Systems

Product Name	Cat. No.
Xmatrix® ELITE	AS4040B
Xmatrix® Infinity	AS4000RX
Xmatrix® ULTRA Dx	AS4030B
Xmatrix® ULTRA Rx	-
Xmatrix® NANO VIP	AS1000
Xmatrix® MINI	AS1010
i6000™ ELITE Dx	AS6030
i6000™ ELITE Rx	AS6040

Reagents and Consumables for Xmatrix and i6000 Automation

Immunohistochemistry – Reagents

Primary antibodies in barcode labeled vials for Xmatrix ELITE/ULTRA and i6000

Product Name	i6000 ELITE	Xmatrix ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrix	
ABCC3	AR800-10R	AW800-YCD	AW800-50D	AR2	AR2	Polyclonal/R
Aberrant Endothelial Cell	AM382-10M	AX382-YCD	AX382-50D	AR2	AR2	4A11/M
ACTH	AM487-10M	AX487-YCD	AX487-50D	AR1/AR2	AR1	AH26/M
Actin; Smooth Muscle	AM128-10M	AX128-YCD	AX128-50D	AR2	AR2	1A4/M
Actin; Muscle-Specific	AM090-10M	AX090-YCD	AX090-50D	AR2	AR2	HHF35/M
Adenovirus	AM059-10M	AX059-YCD	AX059-50D	None	None	A62020069P/M
ALK (Anaplastic Lymphoma Kinase)	AN874-10M	AY874-YCD	AY874-50D	AR2	AR2	SP144/R
ALK/p80	AN770-10M	AY770-YCD	AY770-50D	AR2	AR2	SP8/R
Alpha-Actinin	AM097-10M	AX097-YCD	AX097-50D	AR2	AR2	JLN20/M
Alpha-1-Antichymotrypsin	AM388-10M	AX388-YCD	AX388-50D	AR2	AR2	a1A88/M
Alpha-1-Antitrypsin	AR015-10R	AW015-YCD	AW015-50D	AR2	AR2	Polyclonal/R
Alpha-Fetoprotein (AFP)	AM008-10M	AX008-YCD	AX008-50D	AR2	AR2	C3/M
Alpha-Tubulin	AM121-10M	AX121-YCD	AX121-50D	AR2	AR2	DM-1A/M
Androgen Receptor	AM256-10M	AX256-YCD	AX256-50D	AR2	AR2	F39.4.1/M
B Cell	AM158-10M	AX158-YCD	AX158-50D	AR1/AR2	AR1	MB2/M
Bax Protein	AR347-10R	AW347-YCD	AW347-50D	AR2	AR2	Polyclonal/R
Breast Cancer Antigen (BCA) 225	AM135-10M	AX135-YCD	AX135-50D	AR2	AR2	CU18/M
bcl-2 Oncoprotein	AM287-10M	AX287-YCD	AX287-50D	AR1/AR2	AR1	bcl-2/100/M
BCL-2	AN723-10M	AY723-YCD	AY723-50D	AR1	AR1	EP36/R
Bcl-2α	AN758-10M	AY758-YCD	AY758-50D	AR2	AR2	SP66/R
BCL-6	AM708-10M	AX708-YCD	AX708-50D	AR2	AR2	LN22/M
Bcl-x	AN819-10M	AY819-YCD	AY819-50D	AR2	AR2	EP94/R
BCR-ABL	AM903-10M	AX903-YCD	AX903-50D	AR2	AR2	7C6/M
Beta-Catenin	AN778-10M	AY778-YCD	AY778-50D	AR2	AR2	EP35/R
Beta-Tubulin II	AM176-10M	AX176-YCD	AX176-50D	AR2	AR2	JDR3B8/M
Beta-Tubulin III	AM177-10M	AX177-YCD	AX177-50D	AR2	AR2	SDL3D10/M

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrix (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
Beta-Tubulin IV	AM178-10M	AX178-YCD	AX178-50D	AR2	AR2	ONS1A6/M
Beta-Tubulin	AM122-10M	AX122-YCD	AX122-50D	AR1/AR2	AR1	DM-1B/M
Basic Fibroblast Growth Factor (bFGF)	AM359-10M	AX359-YCD	AX359-50D	AR2	AR2	bFGF88/M
B Lymphocyte Antigen 36; BLA-36	AM231-10M	AX231-YCD	AX231-50D	AR2	AR2	A27-42/M
Blood Group Antigen Lewis A	AM303-10M	AX303-YCD	AX303-50D	AR2	AR2	7LE/M
Blood Group Antigen Lewis B	AM304-10M	AX304-YCD	AX304-50D	AR2	AR2	2-25LE/M
BRCA1 Protein	AR345-10R	AW345-YCD	AW345-50D	AR2	AR2	Polyclonal/R
c-erbB-2 (HER-2/neu)	AN752-10M	AY752-YCD	AY752-50D	AR2	AR2	SP101/R
c-erbB-2 (HER-2/neu)	AN753-10M	AY753-YCD	AY753-50D	AR2	AR2	SP3/R
c-erbB-2 (Her-2/neu)	AM134-10M	AX134-YCD	AX134-50D	AR2	AR2	CB11/M
c-erbB-3 (HER-3)	AM319-10M	AX319-YCD	AX319-50D	AR2	AR2	RTJ1/A2/M
c-Kit / CD117	AN818-10M	AY818-YCD	AY818-50D	AR2	AR2	EP10/R
c-myc Protein	AM318-10M	AX318-YCD	AX318-50D	AR2	AR2	9E10/M
CSF1R	AN914-10M	AY914-YCD	AY914-50D	AR2	AR2	SP211/R
Cytokeratin 5 & 6	AN892-10M	AY892-YCD	AY892-50D	AR2	AR2	EP24 & EP67/R
GITR	AR915-10R	AW915-YCD	AW915-50D	AR2	AR2	Polyclonal/R
IDO	AM916-10M	AX916-YCD	AX916-50D	AR2	AR2	4D2/M
LAG3	AR917-10R	AW917-YCD	AW917-50D	AR2	AR2	Polyclonal/R
PD-1	AM918-10M	AX918-YCD	AX918-50D	AR2	AR2	NAT105/M
SLAMF7	AR920-10R	AW920-YCD	AW920-50D	AR2	AR2	Polyclonal/R
CA 125	AM429-10M	AX429-YCD	AX429-50D	AR2	AR2	Ov185:1/M
CA 19-9	AM424-10M	AX424-YCD	AX424-50D	AR2	AR2	C241:5:1:4/M
Caldesmon HMW, Smooth muscle	AM332-10M	AX332-YCD	AX332-50D	AR2	AR2	h-CD/M
Caldesmon	AN774-10M	AY774-YCD	AY774-50D	AR1/AR2	AR1	EP19/R
Calponin-1	AN821-10M	AY821-YCD	AY821-50D	AR2	AR2	EP63/R
Calponin	AM333-10M	AX333-YCD	AX333-50D	AR2	AR2	CALP/M
Calretinin	AM583-10M	AX583-YCD	AX583-50D	AR1/AR2	AR1	2E7/M
Calretinin	AN747-10M	AY747-YCD	AY747-50D	AR2	AR2	SP13/R
Calretinin	AR413-10R	AW413-YCD	AW413-50D	AR2	AR2	Polyclonal/R
Carcinoembryonic Antigen (CEA)	AM009-10M	AX009-YCD	AX009-50D	AR2	AR2	B01-94-11M-P/M
Carcinoembryonic Antigen (CEA)	AM365-10M	AX365-YCD	AX365-50D	AR2	AR2	CEA88/M
Carcinoembryonic Antigen (CEA)	AR009-10R	AW009-YCD	AW009-50D	AR2	AR2	Polyclonal/R
Catenin Delta 1 (P120)	AR706-10R	AW706-YCD	AW706-50D	AR1/AR2	AR1	Polyclonal /R
Cathepsin D	AM467-10M	AX467-YCD	AX467-50D	AR1/AR2	AR1	C15/M
CD10	AM451-10M	AX451-YCD	AX451-50D	AR2	AR2	56C6/M
CD103	AN739-10M	AY739-YCD	AY739-50D	AR2	AR2	EP206/R
CD105	AM441-10M	AX441-YCD	AX441-50D	AR2	AR2	4G11/M

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Reagents and Consumables

Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
CD117	AM423-10M	AX423-YCD	AX423-50D	AR2	AR2	T595/M
CD117/c-Kit/SCF-Receptor	AR759-10R	AW759-YCD	AW759-50D	AR2	AR2	Polyclonal/R
CD11b/ITAM	AM270-10M	AX270-YCD	AX270-50D	None	None	M01/M
CD11b/ITAM	AN851-10M	AY851-YCD	AY851-50D	AR2	AR2	EP45/R
CD11c	AN822-10M	AY822-YCD	AY822-50D	AR2	AR2	EP157/R
CD13	AN832-10M	AY832-YCD	AY832-50D	AR2	AR2	EP117/R
CD138	AN837-10M	AY837-YCD	AY837-50D	AR2	AR2	EP201/R
CD14	AN814-10M	AY814-YCD	AY814-50D	AR2	AR2	EP128/R
CD146	AN716-10M	AY716-YCD	AY716-50D	AR2	AR2	EP54/R
CD15 (Blood group antigen Lewis X)	AM302-10M	AX302-YCD	AX302-50D	AR2	AR2	BRA4F1/M
CD16	AM437-10M	AX437-YCD	AX437-50D	AR2	AR2	2H7/M
CD16a	AN762-10M	AY762-YCD	AY762-50D	AR2	AR2	SP175/R
CD16a	AN749-10M	AY749-YCD	AY749-50D	AR2	AR2	SP189/R
CD19	AN729-10M	AY729-YCD	AY729-50D	AR2	AR2	EP169/R
CD1a	AM490-10M	AX490-YCD	AX490-50D	AR2	AR2	O10/M
CD2	AM438-10M	AX438-YCD	AX438-50D	AR2	AR2	AB75/M
CD20 (B cell)	AM238-10M	AX238-YCD	AX238-50D	AR2	AR2	L-26/M
CD20	AM537-10M	AX537-YCD	AX537-50D	AR2	AR2	CD20/C23/M
CD205	AN737-10M	AY737-YCD	AY737-50D	AR2	AR2	EP176/R
CD21	AM266-10M	AX266-YCD	AX266-50D	None	None	B2/M
CD21	AN825-10M	AY825-YCD	AY825-50D	AR2	AR2	EP64/R
CD21	AN745-10M	AY745-YCD	AY745-50D	AR2	AR2	SP186/R
CD22	AM439-10M	AX439-YCD	AX439-50D	AR2	AR2	FPC1/M
CD227 (MUCIN 1)	AM534-10M	AX534-YCD	AX534-50D	AR2	AR2	VU-4H5/M
CD23	AR460-10R	AW460-YCD	AW460-50D	AR1/AR2	AR1	Polyclonal/R
CD27	AR912-10R	AW912-YCD	AW912-50D	AR2	AR2	Polyclonal/R
CD29	AM298-10M	AX298-YCD	AX298-50D	AR2	AR2	JB1a/M
CD3 (T cell)	AM258-10M	AX258-YCD	AX258-50D	None	None	UCHT1/M
CD3 (T Cell)	AM322-10M	AX322-YCD	AX322-50D	AR2	AR2	PS1/M
CD3 (T Cell)	AN846-10M	AY846-YCD	AY846-50D	AR2	AR2	EP41/R
CD30 (Ki-1 Antigen)	AM327-10M	AX327-YCD	AX327-50D	AR2	AR2	Ber-H2/M
CD30 (Ki-1 Antigen)	AM351-10M	AX351-YCD	AX351-50D	AR1/AR2	AR1	HRS-4/M
CD31 (PECAM-1)	AM241-10M	AX241-YCD	AX241-50D	AR2	AR2	9G11/M
CD31 (Endothelial Cell)	AM232-10M	AX232-YCD	AX232-50D	AR2	AR2	JC/70A/M
CD34 (Endothelial Cell)	AN779-10M	AY779-YCD	AY779-50D	AR2	AR2	EP88/R
CD34 (Endothelial Cell)	AM236-10M	AX236-YCD	AX236-50D	AR2	AR2	QBend/10/M
CD35	AM431-10M	AX431-YCD	AX431-50D	AR2	AR2	RLB25/M
CD35	AN741-10M	AY741-YCD	AY741-50D	AR2	AR2	SP191/R
CD38	AN769-10M	AY769-YCD	AY769-50D	AR2	AR2	SP149/R
CD4	AM421-10M	AX421-YCD	AX421-50D	AR1/AR2	AR1	4B12/M

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Reagents and Consumables

Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
CD4	AN722-10M	AY722-YCD	AY722-50D	AR2	AR2	EP204/R
CD40	AM913-10M	HX032-YCD	AX913-50D	AR2	AR2	CL1673/M
CD41/Integrin	AN732-10M	AY732-YCD	AY732-50D	AR2	AR2	EP178/R
CD43 & CD45RA Cocktail	AM159-10M	AX159-YCD	AX159-50D	AR2	AR2	MT1 & MB1/M
CD43 (T Cell, Leukosialin)	AM305-10M	AX305-YCD	AX305-50D	AR2	AR2	DFT-1/M
CD43 (T Cell, Leukosialin)	AN748-10M	AY748-YCD	AY748-50D	AR2	AR2	SP55/R
CD44 (Phagocytic Glycoprotein-1, HCAM)	AM310-10M	AX310-YCD	AX310-50D	AR1/AR2	AR1	DF1485/M
CD73	AM904-10M	AX904-YCD	AX904-50D	AR2	AR2	1D7/M
CDK1	AM905-10M	AX905-YCD	AX905-50D	AR2	AR2	A17.1.1/M
CDK2	AN906-10M	AY906-YCD	AY906-50D	AR2	AR2	SP80/R
CDK9	AN908-10M	AY908-YCD	AY908-50D	AR2	AR2	K.513.1/R
CEACAM1	AR909-10R	AW909-YCD	AW909-50D	AR2	AR2	Polyclonal/R
CD45 (Leukocyte common Antigen, LCA)	AM338-10M	AX338-YCD	AX338-50D	AR2	AR2	LJ27.9/M
CD45 (Leukocyte common Antigen, LCA)	AM111-10M	AX111-YCD	AX111-50D	AR2	AR2	PD7/26/16 & 2B11/M
CD45 Cocktail (Leukocyte Antigen, LCA)	AM371-10M	AX371-YCD	AX371-50D	AR2	AR2	MEM55+LJ27.9 /M
CD45RA (B cell)	AM157-10M	AX157-YCD	AX157-50D	None	None	MB1/M
CD45RB	AM320-10M	AX320-YCD	AX320-50D	AR2	AR2	MEM55/M
CD45RC (T Cell)	AM156-10M	AX156-YCD	AX156-50D	AR2	AR2	MT2/M
CD45RO (T Cell)	AM113-10M	AX113-YCD	AX113-50D	AR2	AR2	UHL-1/M
CD48	AN721-10M	AY721-YCD	AY721-50D	AR2	AR2	EP148/R
CD5	AM430-10M	AX430-YCD	AX430-50D	AR2	AR2	4C7/M
CD5	AN824-10M	AY824-YCD	AY824-50D	AR2	AR2	EP77/R
CD53	AN734-10M	AY734-YCD	AY734-50D	AR2	AR2	EP179/R
CD56 (Natural Killer Cell, NCAM)	AM268-10M	AX268-YCD	AX268-50D	None	None	NKH-1/M
CD57 (Natural Killer Cell)	AM314-10M	AX314-YCD	AX314-50D	AR2	AR2	NK-1/M
CD63	AN720-10M	AY720-YCD	AY720-50D	AR1/AR2	AR1	EP211/R
CD66	AM325-10M	AX325-YCD	AX325-50D	AR2	AR2	BY114/M
CD68	AM549-10M	AX549-YCD	AX549-50D	AR2	AR2	CD68/G2/M
CD68	AM416-10M	AX416-YCD	AX416-50D	AR2	AR2	KP1/M
CD7	AM702-10M	AX702-YCD	AX702-50D	AR2	AR2	LP15/M
CD7	AN761-10M	AY761-YCD	AY761-50D	AR2	AR2	SP94/R
CD71 (transferrin Receptor)	AM354-10M	AX354-YCD	AX354-50D	AR2	AR2	H68.4/M
CD71 (transferrin Receptor)	AM269-10M	AX269-YCD	AX269-50D	None	None	T9/M
CD74 (B cell)	AM153-10M	AX153-YCD	AX153-50D	AR2	AR2	LN2/M

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Reagents and Consumables

Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
CD79a	AM414-10M	AX414-YCD	AX414-50D	AR2	AR2	11E 3/M
CD79a	AN719-10M	AY719-YCD	AY719-50D	AR2	AR2	EP82/R
CD79a	AN767-10M	AY767-YCD	AY767-50D	AR2	AR2	SP18/R
CD8	AM422-10M	AX422-YCD	AX422-50D	AR2	AR2	1A5/M
CD8	AN740-10M	AY740-YCD	AY740-50D	AR2	AR2	SP16/R
CD8	AM261-10M	AX261-YCD	AX261-50D	None	None	T8/M
CD82	AN757-10M	AY757-YCD	AY757-50D	AR2	AR2	EP160/R
CD90	AN733-10M	AY733-YCD	AY733-50D	AR2	AR2	EP56/R
CD95	AN742-10M	AY742-YCD	AY742-50D	AR2	AR2	EP208/R
CD99	AN850-10M	AY850-YCD	AY850-50D	AR2	AR2	EP8/R
CD99	AM355-10M	AX355-YCD	AX355-50D	AR2	AR2	HO36.1.1/M
CDw75 (B cell)	AM152-10M	AX152-YCD	AX152-50D	AR1	AR1	LN1/M
CDX-2	AM392-10M	AX392-YCD	AX392-50D	AR2	AR2	CDX2-88/M
CDX-2	AN777-10M	AY777-YCD	AY777-50D	AR2	AR2	EP25/R
Chromogranin A	AM126-10M	AX126-YCD	AX126-50D	AR2	AR2	LK2H10/M
Chromogranin A	AM356-10M	AX356-YCD	AX356-50D	AR2	AR2	PHE-5/M
Claudin-5	AN718-10M	AY718-YCD	AY718-50D	AR2	AR2	EP224/R
Cytomegalovirus (CMV)	AM254-10M	AX254-YCD	AX254-50D	AR2	AR2	BM204/M
Coagulation Factor XIIIa	AN755-10M	AY755-YCD	AY755-50D	AR2	AR2	SP196/R
Collagen III	AM167-10M	AX167-YCD	AX167-50D	AR2	AR2	HWD1.1/M
Collagen IV	AM379-10M	AX379-YCD	AX379-50D	AR2	AR2	COL-94/M
Cyclin D1	AN815-10M	AY815-YCD	AY815-50D	AR2	AR2	EP12/R
Cyclin D1	AR447-10R	AW447-YCD	AW447-50D	AR2	AR2	Polyclonal/R
Cyclin E1	AN854-10M	AY854-YCD	AY854-50D	AR2	AR2	EP126/R
Cytokeratin 10	AM201-10M	AX201-YCD	AX201-50D	AR2	AR2	DEK-10/M
Cytokeratin 13	AM132-10M	AX132-YCD	AX132-50D	AR2	AR2	AE8/M
Cytokeratin 14	AN831-10M	AY831-YCD	AY831-50D	AR1/AR2	AR1	EP61/R
Cytokeratin 14	AM146-10M	AX146-YCD	AX146-50D	AR2	AR2	LL002/M
Cytokeratin 15	AN855-10M	AY855-YCD	AY855-50D	AR2	AR2	EP14/R
Cytokeratin 17	AM572-10M	AX572-YCD	AX572-50D	AR2	AR2	E27/M
Cytokeratin 18	AM143-10M	AX143-YCD	AX143-50D	AR2	AR2	DC-10/M
Cytokeratin 19	AM246-10M	AX246-YCD	AX246-50D	AR2	AR2	RCK108/M
Cytokeratin 20	AN849-10M	AY849-YCD	AY849-50D	AR1/AR2	AR1	EP23/R
Cytokeratin 20	AM315-10M	AX315-YCD	AX315-50D	AR2	AR2	IT-Ks20.8/M
Cytokeratin 4	AM705-10M	AX705-YCD	AX705-50D	AR2	AR2	6B10/M
Cytokeratin 4	AN717-10M	AY717-YCD	AY717-50D	AR2	AR2	EP4/R
Cytokeratin 5 + Cytokeratin 14	AN730-10M	AY730-YCD	AY730-50D	AR1/AR2	AR1	EP24 + EP61/R
Cytokeratin 5	AN847-10M	AY847-YCD	AY847-50D	AR2	AR2	EP24/R
Cytokeratin 5	AN853-10M	AY853-YCD	AY853-50D	AR1/AR2	AR1	EP42/R
Cytokeratin 6	AN845-10M	AY845-YCD	AY845-50D	AR2	AR2	EP67/R

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
Cytokeratin 7 & 8	AM587-10M	AX587-YCD	AX587-50D	AR2	AR2	OV-TL12/30 & C51/M
Cytokeratin 7	AM255-10M	AX255-YCD	AX255-50D	AR2	AR2	OV-TL12/30/M
Cytokeratin 8 & 18	AM131-10M	AX131-YCD	AX131-50D	AR2	AR2	5D3/M
Cytokeratin 8	AM142-10M	AX142-YCD	AX142-50D	AR2	AR2	C51/M
Cytokeratin Cocktail	AM071-10M	AX071-YCD	AX071-50D	AR2	AR2	AE1 & AE3/M
Cytokeratin HMW (Basic)	AM133-10M	AX133-YCD	AX133-50D	AR2	AR2	AE3/M
Cytokeratin, Low MW	AM075-10M	AX075-YCD	AX075-50D	AR2	AR2	AE1/M
Cytokeratin, Pan	AM357-10M	AX357-YCD	AX357-50D	AR2	AR2	C11/M
Cytokeratin cocktail, broad spectrum	AM273-10M	AX273-YCD	AX273-50D	AR2	AR2	34βE12/C51/AE1/M
Cytokeratin cocktail, broad spectrum	AM372-10M	AX372-YCD	AX372-50D	AR2	AR2	LL002+DEK-10+RCK108+OVTL12/30+C11/M
Cytokeratin, High MW	AM291-10M	AX291-YCD	AX291-50D	AR2	AR2	34βE12/M
Cytokeratin, Pan	AM181-10M	AX181-YCD	AX181-50D	AR2	AR2	Lu-5/M
Desmin	AM072-10M	AX072-YCD	AX072-50D	AR2	AR2	D33/M
DOG1	AM570-10M	AX570-YCD	AX570-50D	AR2	AR2	1.1/M
Dystrophin	AM243-10M	AX243-YCD	AX243-50D	AR2	AR2	Dys1 (Dy4/6D3)/M
Dystrophin	AM244-10M	AX244-YCD	AX244-50D	AR2	AR2	Dys2 (Dy8/6C5)/M
E-Cadherin	AN725-10M	AY725-YCD	AY725-50D	AR2	AR2	EP6/R
E-Cadherin	AM390-10M	AX390-YCD	AX390-50D	AR1	AR1	36/M
Epstein-Barr Virus (EBV) Early Antigen	AM222-10M	AX222-YCD	AX222-50D	None	None	1108-1/M
EGFR	AN781-10M	AY781-YCD	AY781-50D	AR2	AR2	EP22/R
EGFR	AR335-10R	AW335-YCD	AW335-50D	AR2	AR2	Polyclonal/R
Epithelial Membrane Antigen (EMA)	AM057-10M	AX057-YCD	AX057-50D	AR2	AR2	E29/M
Epithelial Membrane Antigen (EMA)	AM182-10M	AX182-YCD	AX182-50D	AR2	AR2	Mc5/M
Ep-CAM	AN820-10M	AY820-YCD	AY820-50D	AR2	AR2	EP155/R
Epithelial-Specific Antigen	AM316-10M	AX316-YCD	AX316-50D	AR1	AR1	MOC-31/M
Estrogen Receptor, ER (InSite®)	AM368-10M	AX368-YCD	AX368-50D	AR2	AR2	ER88/M
Estrogen Receptor (ER) Beta	AR385-10R	AW385-YCD	AW385-50D	AR1	AR1	Polyclonal/R
ERG, Ets-Related Gene	AN782-10M	AY782-YCD	AY782-50D	AR2	AR2	EP111/R
Estradiol	AR038-10R	AW038-YCD	AW038-50D	AR2	AR2	Polyclonal/R
Estrogen Receptor (ER) Alpha	AN710-10M	AY710-YCD	AY710-50D	AR2	AR2	EP1/R
Factor VIII-Related Antigen	AM016-10M	AX016-YCD	AX016-50D	AR2	AR2	F8 2.2.9/M

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Reagents and Consumables

Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
Factor XIIIa	AM337-10M	AX337-YCD	AX337-50D	AR2	AR2	E980.1/M
Fascin	AM488-10M	AX488-YCD	AX488-50D	AR2	AR2	FCN01/M
FLI1	AR798-10R	AW798-YCD	AW798-50D	AR2	AR2	Polyclonal/R
Follicle Stimulating Hormone (FSH)	AM765-10M	AX765-YCD	AX765-50D	AR1/AR2	AR1	FSH03/M
Follicle Stimulating Hormone (FSH)	AR766-10R	AW766-YCD	AW766-50D	AR1/AR2	AR1	Polyclonal/R
Gastrin	AR019-10R	AW019-YCD	AW019-50D	AR2	AR2	Polyclonal/R
GCDFP-15	AN856-10M	AY856-YCD	AY856-50D	AR1/AR2	AR1	EP95/R
Glial Fibrillary Acidic Protein (GFAP)	AN783-10M	AY783-YCD	AY783-50D	AR1/AR2	AR1	EP13/R
Glial Fibrillary Acidic Protein (GFAP)	AM020-10M	AX020-YCD	AX020-50D	AR2	AR2	GA-5/M
Glial Fibrillary Acidic Protein (GFAP)	AR020-10R	AW020-YCD	AW020-50D	AR2	AR2	Polyclonal/R
Glomerular Epithelial Protein 1 (GLEPP-1)	AM336-10M	AX336-YCD	AX336-50D	AR2	AR2	5C11/M
Glucagon	AR039-10R	AW039-YCD	AW039-50D	AR2	AR2	Polyclonal/R
GLUT-1	AM505-10M	AX505-YCD	AX505-50D	AR2	AR2	SPM498/M
Glycophorin A + B	AM889-10M	AX889-YCD	AX889-50D	AR2	AR2	E3/M
Glypican-3 (GPC3)	AM539-10M	AX539-YCD	AX539-50D	AR2	AR2	GPC3-88/M
Granulocyte	AM210-10M	AX210-YCD	AX210-50D	AR2	AR2	BM-2/M
Glutathione S-Transferase Pi (GST Pi)	AR249-10R	AW249-YCD	AW249-50D	AR2	AR2	Polyclonal/R
Helicobacter pylori	AM880-10M	AX880-YCD	AX880-50D	AR2	AR2	ULC3R/M
Hemoglobin A	AR021-10R	AW021-YCD	AW021-50D	AR2	AR2	Polyclonal/R
Hepatitis B Virus Core Antigen (HBcAg)	AR082-10R	AW082-YCD	AW082-50D	AR2	AR2	Polyclonal/R
Her2/ErbB2	AN726-10M	AY726-YCD	AY726-50D	AR2	AR2	EP3/R
Human Chorionic Gonadotropin (HCG) Beta	AM395-10M	AX395-YCD	AX395-50D	AR1	AR1	M94138/M
human Growth hormone (HGH)	AR707-10R	AW707-YCD	AW707-50D	AR2	AR2	Polyclonal /R
HLA-DR	AM154-10M	AX154-YCD	AX154-50D	AR2	AR2	LN3/M
Papillomavirus Type 16 (HPV-16)	AM362-10M	AX362-YCD	AX362-50D	AR2	AR2	Cam Vir-1/M
HSA	AM550-10M	AX550-YCD	AX550-50D	AR2	AR2	HSA/E8/M
Heat Shock Protein 27 (HSP 27)	AM171-10M	AX171-YCD	AX171-50D	AR2	AR2	G3.1/M
Heat Shock Protein 70 (HSP 70)	AM289-10M	AX289-YCD	AX289-50D	AR2	AR2	BRM-22/M
Herpes Simplex Virus Type I (HSV I)	AR084-10R	AW084-YCD	AW084-50D	AR2	AR2	Polyclonal/R

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
Herpes Simplex Virus Type II (HSV II)	AR085-10R	AW085-YCD	AW085-50D	AR2	AR2	Polyclonal/R
Progesterone Receptor (PR)	AN711-10M	AY711-YCD	AY711-50D	AR2	AR2	EP2/R
IgA	AR045-10R	AW045-YCD	AW045-50D	AR2	AR2	Polyclonal/R
IgD	AR440-10R	AW440-YCD	AW440-50D	AR2	AR2	Polyclonal/R
IgG	AM367-10M	AX367-YCD	AX367-50D	AR2	AR2	IgG88/M
IgG	AR050-10R	AW050-YCD	AW050-50D	AR1/AR2	AR1	Polyclonal/R
IgM	AM366-10M	AX366-YCD	AX366-50D	AR2	AR2	IgM88/M
IgM	AR427-10R	AW427-YCD	AW427-50D	AR2	AR2	Polyclonal/R
Inhibin-Alpha	AM446-10M	AX446-YCD	AX446-50D	AR2	AR2	R1/M
Insulin	AN735-10M	AY735-YCD	AY735-50D	AR1/AR2	AR1	EP125/R
Insulin	AM029-10M	AX029-YCD	AX029-50D	AR2	AR2	HB125/M
J chain	AM374-10M	AX374-YCD	AX374-50D	AR2	AR2	JC88/M
J chain	AN756-10M	AY756-YCD	AY756-50D	AR2	AR2	SP105/R
Kappa Light Chain	AM369-10M	AX369-YCD	AX369-50D	AR1	AR1	K88/M
Kappa Light Chain	AM048-10M	AX048-YCD	AX048-50D	AR2	AR2	L1C1/M
Ki-67+Lambda L Chain	AC562-10M	AC562-YCD	AC562-50D	AR2	AR2	K-2+Polyclonal/M/R
Ki-67	AM297-10M	AX297-YCD	AX297-50D	AR2	AR2	MIB-1/M
Ki-67	AM370-10M	AX370-YCD	AX370-50D	AR1	AR2	Ki88/M
Ki-67	AM410-10M	AX410-YCD	AX410-50D	AR2	AR2	K-2/M
KRAS	AR751-10R	AW751-YCD	AW751-50D	AR2	AR2	Polyclonal/R
Lambda light chain	AN715-10M	AY715-YCD	AY715-50D	AR2	AR2	EP172/R
Lambda Light Chain	AN763-10M	AY763-YCD	AY763-50D	AR1/AR2	AR1	SP147/R
Lambda Light Chain	AR049-10R	AW049-YCD	AW049-50D	AR2	AR2	Polyclonal/R
Laminin	AR078-10R	AW078-YCD	AW078-50D	AR1	AR1	Polyclonal/R
Luteinizing Hormone (LH)	AN787-10M	AY787-YCD	AY787-50D	AR2	AR2	SP132/R
Lysozyme	AR024-10R	AW024-YCD	AW024-50D	AR2	AR2	Polyclonal/R
Macrophage	AM165-10M	AX165-YCD	AX165-50D	AR2	AR2	LN5/M
Mast Cell Tryptase	AM419-10M	AX419-YCD	AX419-50D	AR2	AR2	AA1/M
MCM2	AN834-10M	AY834-YCD	AY834-50D	AR2	AR2	EP40/R
MCM2	AN773-10M	AY773-YCD	AY773-50D	AR2	AR2	SP85/R
Melan-A (MART-1)	AM361-10M	AX361-YCD	AX361-50D	AR2	AR2	A103/M
Melanoma-Associated Antigen	AM077-10M	AX077-YCD	AX077-50D	AR2	AR2	NKI/C3/M
Melanoma gp100	AM536-10M	AX536-YCD	AX536-50D	AR2	AR2	gp100/D5/M
Melanoma	AM001-10M	AX001-YCD	AX001-50D	AR2	AR2	HMB45/M
Mesothelin	AM433-10M	AX433-YCD	AX433-50D	AR2	AR2	5B2/M
MitF	AM554-10M	AX554-YCD	AX554-50D	AR2	AR2	MitF/A13/M
Mitochondrial Antigen	AM213-10M	AX213-YCD	AX213-50D	AR1/AR2	AR1	113-1/M
MLH1	AM703-10M	AX703-YCD	AX703-50D	AR1/AR2	AR1	ES05/M
MMP-9	AN816-10M	AY816-YCD	AY816-50D	AR2	AR2	EP127/R
MSH2	AN744-10M	AY744-YCD	AY744-50D	AR2	AR2	RED2/R

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Reagents and Consumables

Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
MSH2	AN743-10M	AY743-YCD	AY743-50D	AR2	AR2	SP46/R
MSH6	AM454-10M	AX454-YCD	AX454-50D	AR2	AR2	2D4B5/M
Mucin 1 (MUC1)	AN813-10M	AY813-YCD	AY813-50D	AR2	AR2	EP85/R
MUC4	AM455-10M	AX455-YCD	AX455-50D	AR2	AR2	1G8/M
MUC5AC	AM456-10M	AX456-YCD	AX456-50D	AR2	AR2	45M1/M
Mucin 2 (MUC2)	AM358-10M	AX358-YCD	AX358-50D	AR1/AR2	AR1	CCP58/M
Multi-Drug Resistance Marker (P-Glycoprotein)	AM391-10M	AX391-YCD	AX391-50D	AR2	AR2	MDR88/M
Mum/IRF4	AN750-10M	AY750-YCD	AY750-50D	AR2	AR2	SP114/R
Muscle Actins	AM381-10M	AX381-YCD	AX381-50D	AR2	AR2	Actin 88 Cocktail/M
Myelin Basic Protein	AM380-10M	AX380-YCD	AX380-50D	AR1/AR2	AR1	MBP88/M
Myeloid Specific Antigen	AM164-10M	AX164-YCD	AX164-50D	None	None	BM-1/M
Myeloid Specific Antigen	AM216-10M	AX216-YCD	AX216-50D	AR2	AR2	BM-3/M
Myeloperoxidase (MPO)	AR496-10R	AW496-YCD	AW496-50D	AR2	AR2	Polyclonal/R
Myf4	AM432-10M	AX432-YCD	AX432-50D	AR2	AR2	LO26/M
Myogenin	AN789-10M	AY789-YCD	AY789-50D	AR2	AR2	EP162/R
Myoglobin	AM012-10M	AX012-YCD	AX012-50D	AR2	AR2	MG-1/M
Myoglobin	AR012-10R	AW012-YCD	AW012-50D	AR2	AR2	Polyclonal/R
Myosin Heavy Chain, Smooth Muscle	AM331-10M	AX331-YCD	AX331-50D	AR2	AR2	SMMS.1/M
Myosin, Skeletal Muscle	AM109-10M	AX109-YCD	AX109-50D	AR2	AR2	MY-32/M
Napsin A	AM701-10M	AX701-YCD	AX701-50D	AR2	AR2	IP64/M
Neurofilament	AM073-10M	AX073-YCD	AX073-50D	AR2	AR2	NE-14/M
NGF Receptor	AN738-10M	AY738-YCD	AY738-50D	AR2	AR2	EP31/R
Neuron Specific Enolase (NSE)	AM055-10M	AX055-YCD	AX055-50D	AR2	AR2	MIG-N3/M
Oct-4	AN724-10M	AY724-YCD	AY724-50D	AR2	AR2	EP143/R
Oct-2	AN830-10M	AY830-YCD	AY830-50D	AR2	AR2	EP115/R
Osteonectin	AM387-10M	AX387-YCD	AX387-50D	AR2	AR2	OST1/M
p105 PANA	AM317-10M	AX317-YCD	AX317-50D	AR2	AR2	2B3/M
p120 (Catenin delta 1)	AN760-10M	AY760-YCD	AY760-50D	AR2	AR2	SP63/R
p16 + Ki67	AC601-10M	AC601-YCD	AC601-50D	AR2	AR2	G175-405 + EPR3611/M/R
p16 (INK4a)	AM540-10M	AX540-YCD	AX540-50D	AR2	AR2	G175-405/M
p21/WAF1	AM434-10M	AX434-YCD	AX434-50D	AR2	AR2	4D10/M
p27 (Kip1)	AM396-10M	AX396-YCD	AX396-50D	AR2	AR2	DCS72/M
p27 (Kip1)	AN817-10M	AY817-YCD	AY817-50D	AR2	AR2	EP104/R
p34 (cdc2 Cyclin Dependent Kinase)	AM301-10M	AX301-YCD	AX301-50D	AR2	AR2	POH-1/M

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
P504S (AMACR)	AN449-10M	AY449-YCD	AY449-50D	AR2	AR2	13H4/R
P504S (AMACR)	AN538-10M	AY538-YCD	AY538-50D	AR2	AR2	RBT-AMACR/R
p53 Protein	AM240-10M	AX240-YCD	AX240-50D	AR2	AR2	1801/M
p53 Protein	AM195-10M	AX195-YCD	AX195-50D	AR2	AR2	BP53-12-1/M
p53 Protein	AM239-10M	AX239-YCD	AX239-50D	AR2	AR2	DO7/M
P53	AN728-10M	AY728-YCD	AY728-50D	AR2	AR2	EP9/R
PAP	AM532-10M	AX532-YCD	AX532-50D	AR2	AR2	A40010/M
Pax-5	AM457-10M	AX457-YCD	AX457-50D	AR2	AR2	ZP007/M
Paxillin	AN876-10M	AY876-YCD	AY876-50D	AR2	AR2	EP89/R
Proliferating Cell Nuclear Antigen (PCNA)	AM252-10M	AX252-YCD	AX252-50D	AR2	AR2	PC10/M
PDCD4	AN875-10M	AY875-YCD	AY875-50D	AR2	AR2	EP102/R
Platelet-Derived Growth Factor (PDGF)	AM376-10M	AX376-YCD	AX376-50D	AR2	AR2	PDGF88/M
Platelet-Derived Growth Factor (PDGF)	AR376-10R	AW376-YCD	AW376-50D	AR2	AR2	Polyclonal/R
PGP9.5	AM736-10M	AX736-YCD	AX736-50D	AR1/AR2	AR1	3D9/M
Placental Lactogen (hPL)	AR040-10R	AW040-YCD	AW040-50D	AR2	AR2	Polyclonal/R
Placental Alkaline Phosphatase (PLAP)	AM228-10M	AX228-YCD	AX228-50D	AR2	AR2	PL8-F6/M
PMS2	AN844-10M	AY844-YCD	AY844-50D	AR2	AR2	EP51/R
Progesterone Receptor, PR (InSite®)	AM328-10M	AX328-YCD	AX328-50D	AR2	AR2	PR88/M
Progesterone Receptor	AM172-10M	AX172-YCD	AX172-50D	AR2	AR2	1A6/M
Prolactin	AM031-10M	AX031-YCD	AX031-50D	AR2	AR2	ME.121/M
pS2 Estrogen Inducible Protein	AM190-10M	AX190-YCD	AX190-50D	AR2	AR2	PS2.1/M
Prostate Specific Antigen (PSA)	AM014-10M	AX014-YCD	AX014-50D	AR2	AR2	ErPr8/M
Prostate Specific Acid Phosphatase (PSAP)	AM013-10M	AX013-YCD	AX013-50D	AR2	AR2	B01-94-21M-NA/M
PSMA	AN714-10M	AY714-YCD	AY714-50D	AR2	AR2	EP192/R
PSMA	AN768-10M	AY768-YCD	AY768-50D	AR2	AR2	SP29/R
PTEN	AN746-10M	AY746-YCD	AY746-50D	AR2	AR2	SP218/R
PU.1	AN843-10M	AY843-YCD	AY843-50D	AR2	AR2	EP18/R
Renal Cell Carcinoma (RCC)	AM543-10M	AX543-YCD	AX543-50D	AR1/AR2	None	RCC-26/M
Ribonucleoprotein (RNP)	AM230-10M	AX230-YCD	AX230-50D	AR2	AR2	58-15/M
S-100 Protein	AM058-10M	AX058-YCD	AX058-50D	AR2	AR2	15E2E2/M
S-100 Protein	AR058-10R	AW058-YCD	AW058-50D	AR2	AR2	Polyclonal/R
S100 Beta	AN713-10M	AY713-YCD	AY713-50D	AR2	AR2	EP32/R
S100P	AN712-10M	AY712-YCD	AY712-50D	AR2	AR2	EP186/R

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Reagents and Consumables

Product Name	i6000 ELITE	Xmatrx ELITE/ULTRA (Dx and Rx)		Pre-treatment*		Clone/Source (R)abbit,(M)ouse
	100 Tests	200 Tests	50 Tests	i6000	Xmatrx	
Sarcomeric Actin	AM511-10M	AX511-YCD	AX511-50D	AR2	AR2	ZMSA-5/M
Secretin	AR067-10R	AW067-YCD	AW067-50D	AR2	AR2	Polyclonal/R
SOX2	AN833-10M	AY833-YCD	AY833-50D	AR2	AR2	EP103/R
SOX2	AR788-10R	AW788-YCD	AW788-50D	AR2	AR2	Polyclonal/R
Substance P	AR069-10R	AW069-YCD	AW069-50D	AR2	AR2	Polyclonal/R
Survivin	AN826-10M	AY826-YCD	AY826-50D	AR2	AR2	EP119/R
Synaptophysin	AN857-10M	AY857-YCD	AY857-50D	AR2	AR2	EP158/R
Synaptophysin	AM363-10M	AX363-YCD	AX363-50D	AR1	AR1	Snp88/M
Tumor-Associated Glycoprotein (TAG-72)	AM054-10M	AX054-YCD	AX054-50D	AR2	AR2	B72.3/M
Tumor-Associated Glycoprotein (TAG-90 BCA)	AM005-10M	AX005-YCD	AX005-50D	AR2	AR2	B6.2/M
Tau	AM412-10M	AX412-YCD	AX412-50D	AR1	AR1	TAU-2/M
Tau	AM459-10M	AX459-YCD	AX459-50D	AR1/AR2	AR1	Tau-5/M
Terminal Deoxynucleotidyl Transferase (TdT)	AN881-10M	AY881-YCD	AY881-50D	AR2	AR2	EP266/R
Transforming Growth Factor (TGF) Alpha	AM377-10M	AX377-YCD	AX377-50D	AR2	AR2	TGF88/M
Thyroglobulin	AM032-10M	AX032-YCD	AX032-50D	AR2	AR2	2H11/M
Thyroxine	AM034-10M	AX034-YCD	AX034-50D	None	AR2	D5/M
TIA-1	AM529-10M	AX529-YCD	AX529-50D	AR2	AR2	2G9A10F5/M
Topoisomerase II, Alpha (TOP2A)	AN823-10M	AY823-YCD	AY823-50D	AR2	AR2	EP93/R
Transferrin	AM025-10M	AX025-YCD	AX025-50D	AR1/AR2	AR1	HT1/13.6.3/M
Thyroid Stimulating Hormone (TSH)	AM033-10M	AX033-YCD	AX033-50D	AR2	AR2	5404/M
Thyroid Stimulating Hormone (TSH)	AR033-10R	AW033-YCD	AW033-50D	AR2	AR2	Polyclonal/R
Thyroid Transcription Factor (TTF-1)	AN887-10M	AY887-YCD	AY887-50D	AR2	AR2	SP141/R
TTF-1 + GCDFP-15	AC604-10M	AC604-YCD	AC604-50D	AR2	AR2	8G7G3/1 + EP1582Y/M/R
Tyrosinase	AM535-10M	AX535-YCD	AX535-50D	AR1/AR2	AR1	Ty/G5/M
VEGF	AR483-10R	AW483-YCD	AW483-50D	AR2	AR2	Polyclonal/R
Vimentin	AM163-10M	AX163-YCD	AX163-50D	AR2	AR2	LN6/M
Vimentin	AM074-10M	AX074-YCD	AX074-50D	AR2	AR2	V9/M
VIP	AR530-10R	AW530-YCD	AW530-50D	AR2	AR2	Polyclonal/R
ZAP-70	AN852-10M	AY852-YCD	AY852-50D	AR2	AR2	EP52/R
ZAP-70	AM544-10M	AX544-YCD	AX544-50D	AR2	AR2	ZAP70-C3/M

Antigen Retrieval Key	i6000/Manual (Microwave-based)	Xmatrx (eXACT Thermo-Electric units)
AR1 = EZ-AR1 Elegance	HK546-XAK	HX031-YCD
AR2 = EZ-AR2 Elegance	HK547-XAK	HX032-YCD



Immunohistochemistry - Detection Kits

The XViz™ Detection System

All reagents except those for Xmatrix Infinity are packed in barcoded vials especially designed for use on Xmatrix® Automated Staining Systems to ensure accurate identification, proper reagent inventory management and staining up to 200 slides.

Product Name	Pack Size	Cat. No.
XViz™ Detection Kit EZ-AR™ Elegance solutions (1 X 16 ml each of solutions 1, 2) 3 X 16 ml Peroxide Block, 3 X 16 ml Power Block™, 1 X 16 ml Super Enhancer, 1 X 16 ml Polymer HRP, 4 X 11 ml DAB Buffer, 1 X 4 ml DAB chromogen, 3 X 16 ml Hematoxylin	200 slides	QD550-YCDE
XViz™ Detection Kit For Xmatrix Infinity EZ-AR™ Elegance Solution (1x16 ml each of solutions 1 and 2), 4x16 ml Peroxide Block, 1x15 ml Super enhancer, 5x11 ml DAB buffer, 1x4 ml DAB Chromogen, 1x15 ml Polymer HRP, 4x16 ml Hematoxylin, 1x21 ml Power Block.	200 slides	QD550-YCXE

Super Sensitive™ One-step Polymer-HRP Detection Kit

This kit is designed with the proprietary technology which provides superior sensitivity, specificity and a very short protocol. The innovative secondary antibody-polymer conjugate consists of multiple small HRP active sites, which enable clean and intense, nuclear, cytoplasmic, and membrane stains.

Product Name	Pack Size	Contents	Cat. No.
Super Sensitive™ One-step Polymer-HRP Detection Kit/DAB	200 Slides	EZ-AR™ Elegance solutions (1 x 16ml each of solutions 1, 2), 3 x 16ml Peroxide Block, 3 x 16ml Power Block™, 1 x 16ml Polymer HRP, 4 x 11ml DAB Buffer, 1 x 4ml DAB chromogen, 3 x 16ml Hematoxylin	QD610-YADE

XViz™ Double Staining Polymer Detection Kits

Product Name	Pack Size	Contents	Cat. No.
XViz™ Double Staining Polymer Detection Kit I/DAB&Fast Red	100 Slides	2 X 10 ml Power Block, 2 X 10 ml Peroxide Block, 4 X 5 ml DAB Buffer 1 X 3 ml Liquid DAB Chromogen, 1 X 7 ml EZ-AR™ Elegance Solutions (1, 2 And 3), 1 X 7 ml Mouse Negative Control, 1 X 7 ml Rabbit Negative Control, 1 X 7 ml Anti Rabbit Poly-Hrp + Anti Mouse Poly-AP, 2 X 10 ml Hematoxylin, 2 X 14 ml Permanent Fast Red A, 2 X 14 ml Permanent Fast Red B	QS200-YADE
XViz™ Double Staining Polymer Detection Kit II/DAB&Fast Red	100 Slides	2 X 10 ml Power Block, 2 X 10 ml Peroxide Block, 4 X 5 ml DAB Buffer 1 X 3 ml Liquid DAB Chromogen, 1 X 7 ml EZ-AR™ Elegance Solutions (1, 2 And 3), 1 X 7 ml Mouse Negative Control, 1 X 7 ml Rabbit Negative Control, 1 X 7 ml Anti Mouse Poly-Hrp + Anti Rabbit Poly-AP, 2 X 10 ml Hematoxylin, 2 X 14 ml Permanent Fast Red A, 2 X 14 ml Permanent Fast Red B	QS400-YADE



Antigen Retrieval Solutions

The EZ-AR™ Elegance Solutions possess unique properties that enable optimal dewaxing, rehydration, and antigen retrieval in formalin-fixed, paraffin-embedded tissue sections. These solutions facilitate the production of highly reproducible and superior quality stains in a considerably short period of time without compromising the morphology and antigenicity of the tissue.

Xmatrx ELITE and Ultra - in Barcoded Vials

Product Name	Pack Size	Product Description	Cat. No.
EZ-AR™ 1 Elegance	200 slides	EZ-AR™ 1 Elegance is a Citra based solution. Works at 100 °C	HX031-YCD
EZ-AR™ 2 Elegance	200 slides	EZ-AR™ 2 Elegance is an EDTA based solution. Works at 100 °C	HX032-YCD
EZ-AR™ 3 Elegance	200 slides	EZ-AR™ 3 Elegance is a Citra based solution. Works at 100 °C	HX033-YCD
EZ-AR™ 4 Elegance	200 slides	EZ-AR™ 4 Elegance is an Tris based solution. Works at 100 °C	HX034-YCD

Xmatrx Infinity

Product Name	Pack Size	Product Description	Cat. No.
EZ-AR™ 1 Elegance	200 slides	EZ-AR™ 1 Elegance is a Citra based solution. Works at 100 °C	HX031-YCX
EZ-AR™ 2 Elegance	200 slides	EZ-AR™ 2 Elegance is an EDTA based solution. Works at 100 °C	HX032-YCX
EZ-AR™ 3 Elegance	200 slides	EZ-AR™ 3 Elegance is a Citra based solution. Works at 100 °C	HX033-YCX
EZ-AR™ 4 Elegance	200 slides	EZ-AR™ 4 Elegance is an Tris based solution. Works at 100 °C	HX034-YCX

Enzymatic Pre-treatment Solutions

Product Name	Pack Size	Cat. No.
Pepsin 4-Pack: 4 vials of Lyophilized Enzyme Powder, 4 x 6 mL Reconstitution Buffer	200 slides	EK000-10XE
Trypsin 4-Pack: 4 vials of Lyophilized Enzyme Powder, 4 x 6 mL Reconstitution Buffer	200 slides	EK001-10XE
Protease XXIV 4-Pack: 4 vials of Lyophilized Enzyme Powder, 4 x 6 mL Reconstitution Buffer	200 slides	EK002-10XE

In Situ Hybridization Kits and Probes

The XISH Detection Kit is designed for using with fluorescein labeled probes. It enables accurate detection of specific DNA and mRNA sequences in routine paraffin sections/cell smears.

ISH Probes*

Probes are packaged with barcoded vials for staining up to 25 slides.

Product Name	Pack Size	Intended Use	Cat. No.
Alu II DNA	25 slides	Positive control probe for detection of primate DNA sequence repeat	PR026-YAD
Beta-Actin	25 slides	Internal standard for ISH and Northern blot	PR1055-YAD
CerviPro HPV 14	25 slides	Detection of high risk genotypes of human papillomavirus	PR251-YAD
CerviPro HPV Type 16/18	25 slides	Detection of HPV types 16 and 18	PR250-YAD
Epstein Barr Virus Early RNA (EBER)	25 slides	Detection of latent EBV infection	PR205-YAD
Kappa	25 slides	Detection of Kappa light chain mRNA	PR214-YAD
Lambda	25 slides	Detection of Lambda light chain mRNA	PR215-YAD
Oligo dT	25 slides	Assessment of mRNA preservation	PR217-YAD
Retinoblastoma	25 slides	Detection of Retinoblastoma mRNA	PR225-YAD

*Research use only

One Step ISH Detection Kit

Product Name	Pack Size	Probe Type	Cat. No.
XISH™ One Step Polymer-HRP ISH Detection System 1 x 10ml Power Block, 1 x 10 ml Peroxide Block, 4 x 5 ml DAB Buffer, 1 x 5ml Liquid DAB Chromogen, 1 x 5ml One step Poly-HRP Reagent; 1 x 10ml Hematoxylin; 1 x 5ml Proteinase K; 1 x 5ml Nucleic Acid Retrieval Solution; 2 x 10ml Wash Solution A; 2 x 10ml Wash Solution B; 2 x 10ml Wash Solution E; 2 x 10ml Wash Solution F; 1 x 5ml Anti-Flourescein Antibody	100 slides	Fluorescein Labeled	DF400-YADE



Empty Reagent Vials

Product Name	Pack Size	Cat. No.
User defined empty barcoded vials- Two step IHC	Each	XT077-AX0601 to XT077-AX0800
User defined empty barcoded vials- One step IHC	Each	XT077-AX0801 to XT077-AX0999
User defined empty barcoded vials- ISH Probes	Each	XT079-PR0050 to XT079-PR0099

Consumable Kit

Product Name	Pack Size	Cat. No.
ISH Consumable Kit-Xmatrx® 2 x 52 nos 25 x 25 mm Double Barrier Slides, 1 x 900 Nos of 25 x 25 mm Coverslips, 2 x 192 Large Pipette Tips (1 ml), 1 x 960 Nos of Pipette Tips (200µL)	100 slides	XT144-YAD
Xflex Ultra Consumable Kit 3 x 72 Nos of 25 X 40 mm Double Barrier Slides, 2 x 500 Nos of 25 X 40 CoverSlips, 1 X 960 Nos of Pipette Tips (200µL), 2 x 192 Large Pipette Tips (1 ml)	200 slides	XT148-YCDE

Xmatrx Consumables

Product Name	Pack Size	Cat. No.
Barrier Slides, 18x18 mm, 2-zone, Xmatrx® ELITE & Infinity	1400 Slides/Case	XT114-CL
Barrier Slides, 18x18 mm, 2-zone, Xmatrx® ELITE & Infinity	70 Slides/Box	XT114-SL
Barrier Slides, 18x18 mm, Xmatrx® ELITE & Infinity	1400 Slides/Case	XT128-CL
Barrier Slides, 18x18 mm, Xmatrx® ELITE & Infinity	70 Slides/Box	XT128-SL
Barrier Slides, 25X25 mm, Xmatrx® ELITE & Infinity	1400 Slides/Case	XT108-CL
Barrier Slides, 25X25 mm, Xmatrx® ELITE & Infinity	70 Slides/Box	XT108-SL
Barrier Slides, 25X40 mm, Xmatrx® ELITE ISH & Infinity	1400 Slides/Case	XT134-CL
Barrier Slides, 25X40 mm, Xmatrx® ELITE ISH & Infinity	70 Slides/Box	XT134-SL
Coverslips, 18x18 mm, Xmatrx® ELITE & Infinity	1750 Coverslips/Case	XT121-XBK
Coverslips, 18x18 mm, Xmatrx® ELITE & Infinity	175 Coverslips/Box	XT121-YBX
Coverslips, 25x25 mm, Xmatrx® Infinity & ELITE ISH	90 Coverslips/Box	XT122-90X
Coverslips, 25x25 mm, Xmatrx® Infinity & ELITE ISH	900 Coverslips/Case	XT122-YQK
Coverslips, 25x40 mm, Xmatrx® ELITE & Infinity	50 Coverslips/Box	XT118-50X
Coverslips, 25x40 mm, Xmatrx® ELITE & Infinity	500 Coverslips/Box	XT118-YRK
Reagent Vials, Brown, 20ml, Xmatrx® Infinity	24/Pack	XT101-24X
Reagent Vials, Translucent, 20ml, Xmatrx® Infinity	24/Pack	XT026-V24
Reagent vial - no lid, brown/2 ml vial holder for Xmatrx® ELITE	24/pack	XT126-24V
Pipette Tips, 1 ml, Xmatrx® ELITE & Infinity	960 Tips/Case	XT104-05X



Product Name	Pack Size	Cat. No.
Pipette Tips, 1 ml, Xmatrx® ELITE & Infinity	192 Tips/Box	XT105-01X
Pipette Tips, 200 ul, Xmatrx® Infinity & ELITE	960 Tips/Box	XT146-01X
Pipette Tips, 200ul, Xmatrx® Infinity & ELITE	4800 Tips/Case	XT145-05X
Reagent Vial Insert, 2 ml	24/Pack	XT149-V24

Ancillary Reagents

DeWax Solutions[†]

BioGenex X-DeWax™ Solution is a “one-step” product that simultaneously enables the removal of paraffin and allows rehydration of the tissue with a single reagent. In the past, formalin-fixed, paraffin-embedded tissue sections were traditionally deparaffinized with highly toxic, noxious chemicals (i.e. xylene, equivalents). BioGenex, a pioneer in Immunohistochemistry technology, offers a xylene-free product that removes the paraffin from mounted tissue slides easily and rapidly.

Product Name	Pack Size	Cat. No.
X-DeWax™ Solution (Ready to use)	1000 ml	HX015-XAK [†]
X-DeWax™ Solution (Concentrated)	1000 ml	HX016-XAK [†]
X-DeWax™ Solution (Concentrated)	1 Gallon	HX016-XEK [†]

XMOUNT™

Product Name	Pack Size	Cat. No.
XMOUNT™ for Xmatrx® ELITE (Barcoded)	200 slides	HX035-YCD
XMOUNT™ for Xmatrx® Infinity	200 slides	HX035-10X

Wash Buffers

XWash™ Buffer provides optimal staining with minimal background.

Product Name	Pack Size	Cat. No.
SuperSensitive Wash Buffer	500 ml	HK583-5K
X-Wash Buffer, 20X for Xmatrx®	500 ml	HX020-YIK
Special Stain Wash Solution (20X)	500 ml	HK755-5K

FISH Application

Product Name	Cat. No.
Xmatrx® FISH Software	4812-00089

Note: Unless specified otherwise, all products listed in this section are for Laboratory Use Only.

[†] U.S. Patent No. 6,632,598; U.S. Patent No. 7, 070, 951; Japanese Patent No. 3532571; European Patent No. 0698118B1.



Detection Systems

Our all-inclusive, Super Sensitive™ Detection Systems contain all the reagents required for easy, fast, and exceptional staining. Each kit contains enough reagents to stain approximately 200 slides at 100 µl per slide. The following kit configurations are available to fit laboratory needs for any staining requirement. Reagents are offered in barcoded vials designed for use on the i6000™ Staining Systems.

Product Name	Pack Size	Cat. No.
Super Sensitive™ One-step Polymer-HRP Detection Kit/DAB	200 slides	QD610-YAXE
Super Sensitive™ Polymer HRP Detection System/DAB	200 slides	QD410-YAXE
Avidin/Biotin Blocking Kit RTU	200 slides	HK102-20XE
Avidin/Biotin Blocking Kit RTU	100 slides	HK102-10KE

OptiMiser Reagent Vials and Accessories (User Defined)

The OptiMiser reagent vials (U.S. & Foreign Equivalent Patents Pending) are available as a 20 ml disposable barcoded pack for use on the i6000™ staining systems.

Product Name	Pack Size	Cat. No.
OptiMiser Reagent Vials, Labeled (20 ml) (Empty Vials supplied with 100 corresponding slide barcode labels)	1 each	XT026-601 to XT026-899 XT026-601P to XT026-750P
OptiMiser Reagent Vials, Unlabeled (20 ml) White	Pack of 24	XT026-V24
OptiMiser Reagent Vials, Unlabeled (20 ml) Brown	Pack of 24	XT101-24X
OptiMiser Universal Vial Holders	Pack of 24	XT027-H24
OptiMiser Vial Caps	Pack of 24	XT022-CP
Reagent Empty Vial Labeled for User Probe	1 each	XT026-PR601 to XT026-PR615

Note: Unlabeled Vials - for open system only



Barrier Slides, PAP Pen, and Barcode Labels

OptiPlus™ Positively-charged Barrier Slides (U.S. & Foreign Equivalent Patents Pending) contain hydrophobic barriers that allow the quantity of reagent per slide to be tailored to the size of the specimen. These slides come in three configurations to accommodate different tissue sizes or multiple tissues per slide; A single full-size test area of 25 mm x 40 mm, a single 2/3-size test area of 25 mm x 30 mm, and three 1/3-size test areas per slide, each measuring 25 mm x 15 mm. The permanent hydrophobic barriers are compatible with dewaxing solutions and other reagents. The slides are suitable for use with frozen tissue sections, formalin-fixed paraffin sections, and cytology preparations.

Product Name	Pack Size	Cat. No.
OptiPlus™ Positively-charged Barrier Slides (full test area)	1 box (70 slides)	XT134-SL
	1 case (20 boxes)	XT134-CL
OptiPlus™ Positively-charged Barrier Slides (2/3 test area)	1 box (70 slides)	XT013-SL
	1 case (20 boxes)	XT013-CL
OptiPlus™ Positively-charged Barrier Slides (3 x 1/3 test area)	1 box (70 slides)	XT014-SL
	1 case (20 boxes)	XT014-CL
PAP Pen (For 500 to 1000 Slides, 5mm round tip) -1 unit	1 each	XT001-PP
Slide Barcode Labels	100/sheet	AM6010 to AM7990 AR6010 to AR6600

Pipette Tips

Each pipette tip is carefully inspected to ensure optimal and accurate performance.

Product Name	Pack Size	Cat. No.
Pipette Tips for i6000™ (1.0 ml)	1 box (192 tips)	XT105-01X
Pipette Tips for i6000™ (1.0 ml)	5 boxes (960 tips)	XT104-05X

Ancillary Reagents

EZ-DeWax™ Solutions¹

Tissue specimens are usually fixed and embedded in paraffin, sectioned on a microtome, and then attached to slides. Before immunostaining, the sections are traditionally deparaffinized with highly toxic, noxious chemicals (xylene and alcohols or equivalents). BioGenex offers a revolutionary product that simply, easily and rapidly removes the paraffin from mounted tissue slides. Use of non-xylene based BioGenex EZ-DeWax™ Solution permits a two-step application of a single reagent that completely removes the paraffin, rendering the tissue's antigenic sites accessible to the antibodies, chromogens and other aqueous solutions. The deparaffinization time is reduced from 45 minutes of manual processing to less than 15 minutes of automated dewaxing on the BioGenex i6000™ Automated Staining System using the EZ-DeWax™ Solution. The solution simultaneously removes paraffin and rehydrates the tissue.

Product Name	Pack Size	Cat. No.
EZ-DeWax™ Solution (Concentrated) ¹ (Requires 500 ml of histologic grade ethanol for reconstitution)	500 ml	HK584-5K
EZ-DeWax™ Solution (RTU) ¹	1000 ml	HK585-5K

¹ US Patent No. 6,632,598; Japanese Patent No. 3532571; European Patent No. 0698118B1.



Enzymes for Pre-treatment

Some tissues require the use of enzymatic pre-treatment before staining to achieve standardized results depending on the antibodies and their different incubation and pre-treatment requirements.

Product Name	Pack Size	Cat. No.
Pepsin 4-Pack 4 vials of Lyophilized Enzyme Powder, Reconstitution Buffer 4 x 5 ml	200 slides	EK000-10KE
Trypsin 4-Pack 4 vials of Lyophilized Enzyme Powder, Reconstitution Buffer 4 x 5 ml	200 slides	EK001-10KE
Protease XXIV 4-Pack 4 vials of Lyophilized Enzyme Powder, Reconstitution Buffer 4 x 5 ml	200 slides	EK002-10KE
Diastase (Alpha-Amylase Kit) 4 vials of alpha-amylase, 4 vials of alpha-amylase diluent	200 slides	EK004-5KE

Wash Buffers

Super Sensitive™ Wash Buffers are used to ensure optimal staining with even spreading of antibodies and other reagents to avoid inconsistent results.

Product Name	Pack Size	Cat. No.
Super Sensitive™ Wash Buffer, 20X concentrated	500 ml	HK583-5K
X-Wash Buffer, 20X for Xmatrix®	500 ml	HX020-YIK

EZ-AR™ Solutions

Product Name	Pack Size	Product Description	Cat. No.
EZ-AR™ 1 RTU ¹	1L	EZ-AR™ 1 is a Citra based solution. Works at 107 °C	HK521-XAK
EZ-AR™ 2 RTU ¹	1L	EZ-AR™ 2 is a EDTA based solution. Works at 107 °C	HK522-XAK
EZ-AR™ 3 Conc. ¹ (10X)	500 ml	EZ-AR™ 3 is a Citra based solution. Works at 107 °C	HK543-YOK
EZ-AR™ 4 Conc. ¹ (10X)	500 ml	EZ-AR™ 4 is a Tris based solution. Works at 107 °C	HK544-YOK
EZ-AR™ Common, Conc. ¹ (5X)	1 L	DeWax solution. Use in combination with other EZ-AR™ solutions	HK545-XOK



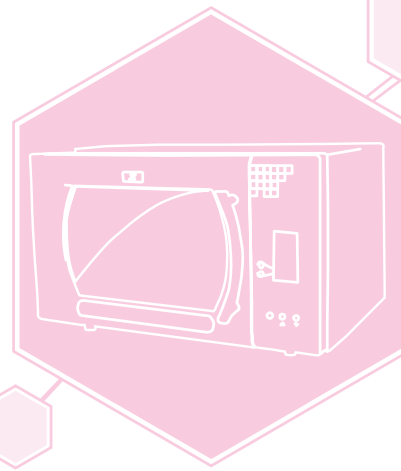
Product Name	Cat. No.
i500 Plus™ LIS Enabled Barcode Label Printer	BLS500

Instrument Accessories

Product Name	Pack Size	Cat. No.
Resin Ribbon	1 Roll	XT034-XEX
Labels Roll	1 Roll	XT035-XBX

¹ U.S. Patent Numbers 6,451,551 and 5,578,452 (as well as foreign equivalents)





Tissue Pre-treatment & Antigen Retrieval





De-Waxing Solutions

One-Step DeWaxing and Rehydration Reagent

BioGenex deparaffinization solutions are “one-step” products that simultaneously enables the removal of paraffin and allows rehydration of the tissue with a single reagent. In the past, formalin-fixed, paraffin-embedded tissue sections were traditionally deparaffinized with highly toxic, noxious chemicals (i.e. xylene, equivalents). BioGenex, a pioneer in Immunohistochemistry technology, offers xylene-free products that remove paraffin from mounted tissue slides easily and rapidly.

1. EZ-DeWaxSol. – For all BioGenex manual methods.

2. X-Dewax Sol. – Optimized for Xmatrix automation.

Features & Benefits

- Effectively removes paraffin and allows rehydration of the tissue in one step.
- Reduces deparaffinization time from 45 minutes to 10 minutes.
- Eliminates use of toxic solvents (Xylene) and minimizes hazardous waste.
- Ready to use (RTU) or 2x solutions (to be diluted 1:1 with ethanol) are available.

3. EZ-AR Common Sol. – Microwave facilitated deparaffinization.

Features & Benefits

- Conveniently perform deparaffinization and Antigen Retrieval in the same slide tank using microwave heating.
- Quick deparaffinization & rehydration in one step (10 minutes @ 70°C default protocol).
- Reduces the use of alcohol in preparing tissue sections for IHC, ISH, H & E, FISH and Special Stains.
- Eliminates use of toxic solvents (Xylene) and minimizes hazardous waste.
- Optimized for use in EZ-Retriever® microwave with BioGenex EZ-AR 1-4 solutions.



Product	1000 ml ^(RTU)	1000 ml/500 ml ^(2x)	1 Gallon ml ^(2x)
X-DeWax (Xmatrix®)	HX015-XAK	HX016-XAK (1000ml)	HX016-XEK
EZ-DeWax (Manual/i6000™)	HK585-5k	HK584-5k (500 ml)	NA
EZ-AR Common Sol 1000 ml ^(5x)	HK545-XOK	-	-

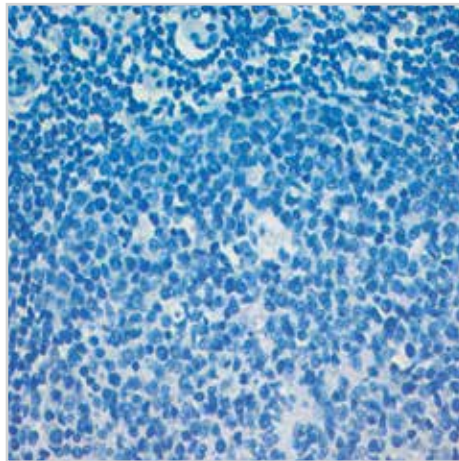


Antigen Retrieval Method

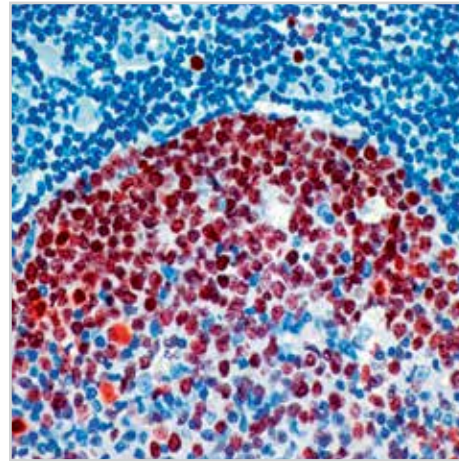
BioGenex is the inventor of Antigen Retrieval enabling technology. Antigen Retrieval is an effective way of unmasking antigenic epitopes on the surface of formalin-fixed, paraffin-embedded tissue sections using microwave heating. Covered by exclusive patents issued to BioGenex, this method has been routinely practiced in laboratories throughout the world. The Antigen Retrieval technique breaks the formalin induced cross-linking bonds between epitopes and unrelated proteins, thereby allowing better penetration of antibody and accessibility of epitopes.

Advantages of the method:

- Enhanced exposure of antigenic epitopes on the surface of the tissue section
- Reduced time for primary antibodies incubation
- Consistent and reliable staining quality
- Eliminates false negative staining results in FFPE tissue sections
- Ease-of-use



Tonsil tissue stained with anti-Ki-67 antibody using AEC chromogen without antigen retrieval



Tonsil tissue stained with anti-Ki-67 antibody using AEC chromogen with antigen retrieval

Different antibodies require different conditions for Antigen Retrieval. BioGenex offers several types of Antigen Retrieval Solutions.

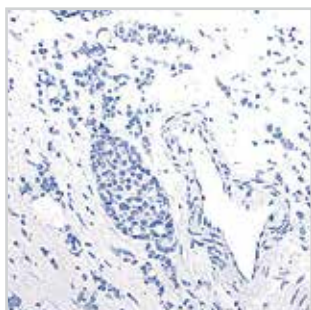


1. Antigen-Retrieval(AR) Solutions – For Manual Use & i6000™

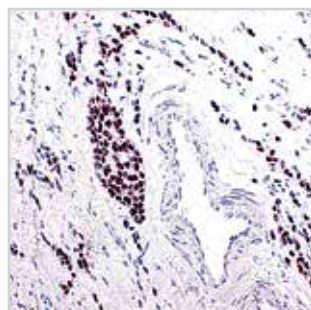
Product	Method	Features & Recommended Use
Citra	Microwave, 95-100°C	PH~6, excellent for most BioGenex Antibodies*
Citra Plus	Microwave, 95-100°C	Enhanced formulation PH~6, for antibodies such as Estrogen Receptor (clone ER88), HSP27 (G3.1) and CDX-2 (CDX2-88)*
AR-10	Microwave, 95-100°C	Tris-Based, high PH-10, for antibodies such as Caldesmon (clone h-CD), CD3 (PS1), c-myc (9E10) & GLEPP1 (5C11)*
H&E	Microwave or Room Temp. 25-100°C	Best for burnt, overfixed or dried FFPE tissues, over-DeCal (bone marrow biopsies) and fragile/over processed specimens (e.g. needle biopsies). Can be used at room temp. for some frozen tissue sections and tissues with freezing artifacts
DeCal	Room Temp. 20-25°C	For acid-decalcified bone marrow & formalin-fixed tissues embedded in paraffin or celloidin

* See datasheets for BioGenex recommended Antigen Retrieval for each specific antibody.

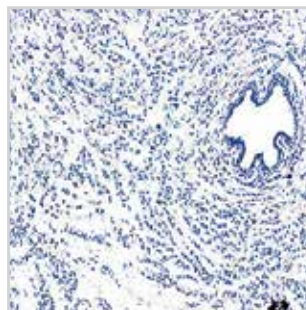
Product	100 ml ^(10x)	500 ml ^(10x)	250 ml ^(RTU)	1000 ml ^(RTU)
AR Citra Sol. PH-6.0	HK086-5K	HK086-9K	HK087-5K	HK087-20K
AR Citra Plus Sol. PH-6.2	HK080-5K	HK080-9K	HK081-5K	HK081-20K
AR-10 Sol. (Tris) PH-10	HK057-5K	NA	HK058-5K	HK058-20K
H&E Retrieval	HK169-5K	NA	NA	NA
DeCal Retrieval Sol.	NA	NA	HK089-5K	NA



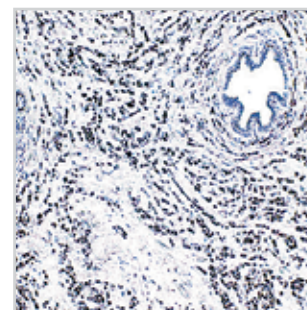
Breast Carcinoma tissue stained with Anti-Progesterone Receptor [PR88] MAb, using AEC chromogen without Antigen Retrieval.



Breast Carcinoma tissue stained with Anti-Progesterone Receptor [PR88] MAb, using AEC chromogen with Antigen Retrieval using Citra.



Breast Carcinoma tissue stained with Anti-Estrogen Receptor [ER88] MAb, using DAB chromogen without Antigen Retrieval.



Breast Carcinoma tissue stained with Anti-Estrogen Receptor [ER88] MAb, using DAB chromogen with Antigen Retrieval using Citra Plus.



2. Enhanced Antigen-Retrieval (EZ-AR) Solutions – For Manual & i6000™ Use

Features & Benefits:

- Unique superheating properties - Increases the availability of antigenic epitopes in tissues
- Short and standardized protocols for all BioGenex antibodies - Eliminates guesswork in optimizing protocols
- Fast uniform heating and cooling of solutions - Reduces tissue pretreatment time
- Non-hazardous, non-flammable, and odorless - Safe and Eco-friendly

Product	Method	Features & Recommended Use
EZ-AR 1	EZ-Retriever® or Microwave, 107°C	Citra based, PH~6, excellent for most BioGenex Antibodies*
EZ-AR 2	EZ-Retriever® or Microwave, 107°C	EDTA based, PH~8.5, for antibodies such as Ki67 (EP5), CD5 (EP2952) and NGF Receptor (EP1039Y)*
EZ-AR 3	EZ-Retriever® or Microwave, 95-100°C	Citra based, PH~6, for antibodies such as Estrogen Receptor (clone ER88), HSP27 (G3.1) and CDX-2 (CDX2-88)*
EZ-AR 4	EZ-Retriever® or Microwave, 95-100°C	Tris based, PH~10, for antibodies such as Caldesmon (clone h-CD), CD3 (PS1), c-myc (9E10) & GLEPP1 (5C11)*

* See datasheets for BioGenex recommended Antigen Retrieval for each specific antibody.

Product	1 L (RTU)	2 GL (RTU)	500 ml (10x)
EZ-AR 1 Sol (Citra)	HK521-XAK	NA	NA
EZ-AR 2 Sol (EDTA)	HK522-XAK	NA	NA
EZ-AR 3 Sol (Citra)	NA	NA	HK543-YOK
EZ-AR 4 Sol (Tris)	NA	NA	HK544-YOK



3. EZ-AR Elegance Antigen Retrieval Solutions – Superheating boil-free solutions

Features & Benefits:

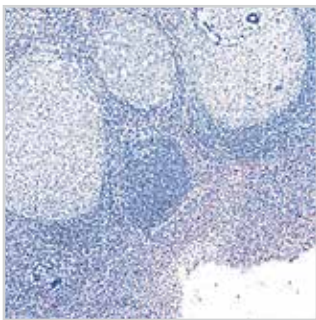
- Optimized for Xmatrx with standardized protocols for all BioGenex antibodies
- Reaches 107°C without boiling - Minimizes evaporation & preserves morphology
- Non-hazardous, non-flammable, and odorless - Safe and Eco-friendly

Product	Method	Features & Recommended Use
EZ-AR 1 Elegance	Xmatrx Automation Works at 100-105°C	Citra based, PH~6, excellent for most BioGenex Antibodies*
EZ-AR 2 Elegance	Xmatrx Automation Works at 100-105°C	EDTA based, PH~8.5, for antibodies such as Ki67 (EP5), P27 (Y236) and P53 Protein (DO7)*
EZ-AR 3 Elegance	Xmatrx Automation Works at 95-100°C	Citra based, PH~6, for antibodies such as Estrogen Receptor (clone ER88), HSP27 (G3.1) and CDX-2 (CDX2-88)*
EZ-AR 4 Elegance	Xmatrx Automation Works at 95-100°C	Tris based, PH~10, for antibodies such as Caldesmon (clone h-CD), CD3 (PS1), c-myc (9E10) & GLEPP1 (5C11)*

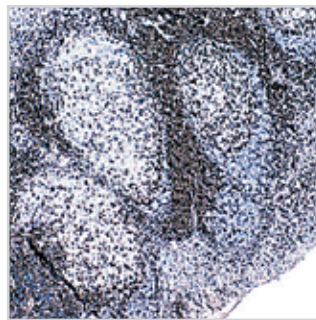
* See datasheets for BioGenex recommended Antigen Retrieval for each specific antibody.

Product	Xmatrx® Elite/Ultra* 200 Slides** (RTU)	Xmatrx® Infinity** 200 Slides** (RTU)	Manual/Open Sys.^ 1000 ml (RTU)
EZ-AR 1 Elegance (Citra)	HX031-YCD	HX031-YCX	HK546-XAK
EZ-AR 2 Elegance (EDTA)	HX032-YCD	HX032-YCX	HK547-XAK
EZ-AR 3 Elegance (Citra)	HX033-YCD	HX033-YCX	NA
EZ-AR 4 Elegance (Tris)	HX034-YCD	HX034-YCX	NA

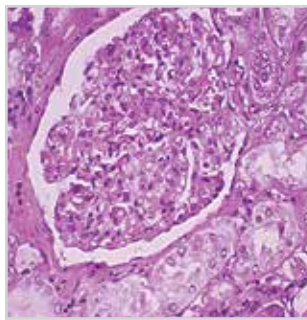
** 80 µl/test for Xmatrx Elite/Ultra, 70 µl/test for Xmatrx Infinity
 ^ Reagent vials for Xmatrx Infinity need to be purchased separately



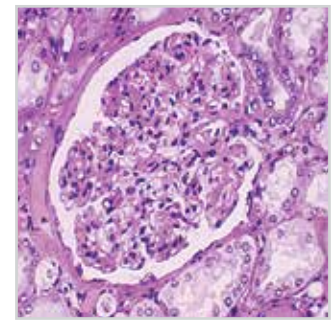
Tonsil tissue stained with anti-CD3 MAb using DAB chromogen without Antigen Retrieval using AR-10†.



Tonsil tissue stained with anti-CD3 MAb using DAB chromogen with Antigen Retrieval using AR-10†.



Burnt kidney tissue stained after standard pre-treatment.



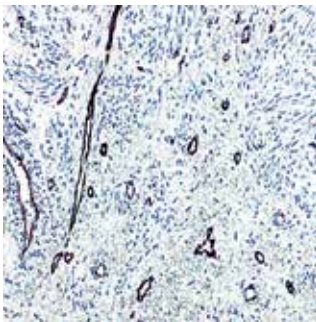
Nuclear data restored by microwave heating in H&E Solution.



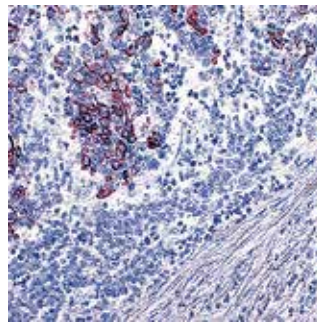
Enzymes for Tissue Digestion

Some tissues require the use of enzymatic pre-treatment before staining to achieve standardized results depending on the antibodies and their different incubation and pre-treatment requirements. Each kit contains three or four vials of lyophilized enzyme powder and 15 ml of reconstitution buffer, enabling you to make fresh enzyme solutions as needed.

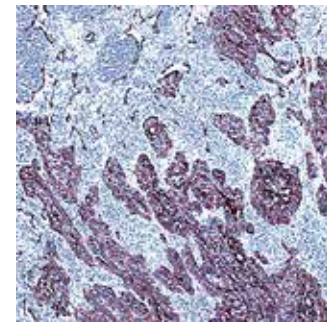
1. The Trypsin and Pepsin kits contain well-established enzymes suitable for routine pre-treatment at 37 °C.
2. Protease XXIV kits contain a universal digestive agent that allows for fast and effective pre-treatment at room temperature.
3. The diastase (Alpha-amylase) catalyzes breakdown of starch. Diastase is often used prior to periodic acid-Schiff (PAS) staining (See Special Stains section) and is useful as an aid in the evaluation of glycogen storage disease.
4. Proteinase K in a ready to use (RTU), RNase-free solution.



Leiomyoma tissue stained with Factor VIII MAb using AEC chromogen following Pepsin Pre-treatment.



Colonic adeno carcinoma stained with Anti-Cytokeratin 20 MAb following Protease Pre-treatment.



Squamous Carcinoma tissue stained with Anti-Cytokeratin (High Molecular Weight) MAb using AEC chromogen following Trypsin Pre-treatment.

Product	Manual ^{###} 150 Slides/3 pack	X i6000 ^{##} 200 Slides/4 pack	Xmatrix [#] 200 Slides/4 pack
Diastase (Alpha-Amylase)	NA	EK004-5KE	NA
Pepsin	EK000-5KE	EK000-10KE	EK000-10XE
Protease XXIV	EK002-5KE	EK002-10KE	EK002-10XE
Trypsin	EK001-5KE	EK001-10KE	EK001-10XE
Proteinase K	HK878-5KE (50 Tests only)	NA	NA

In Barcoded Xmatrix Elite/Ultra vial

In i6000/Xmatrix Infinity Barcoded vial

In drop bottles



NordicWare® Microwave Tender Cooker

Placing the NordicWare® Microwave Tender Cooker^a within a microwave is an effective method for enhancing staining with the Antigen Retrieval technique. The heat produced under enhanced pressure can reduce the build up of gas bubbles on the surface of tissues. This improves the intensity of staining, accompanied by preservation of tissue and cell morphology. This pressure cooker is also optimized for use with various BioGenex Antigen Retrieval solutions.

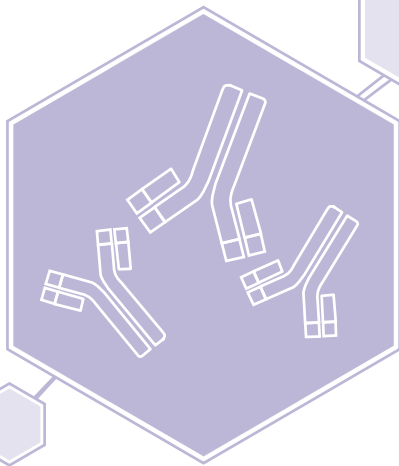


Product Name	Pack Size	Cat. No.
NordicWare® Microwave Tender Cooker	1 Unit	NW001-PC

For Laboratory Use only

^a NordicWare® is a registered trademark of NordicWare Corp.

Note: The reagents in this section are for Laboratory use only



Primary Antibodies





Primary Antibodies

BioGenex antibodies are optimized to provide maximum signal with minimum background when used for immunohistochemical staining.

Format

Ready-to-Use antibodies are fully optimized for use with BioGenex detection systems without the need for further dilution or titration. Ready-to-Use, Super Sensitive™ antibodies are fully quality controlled. These antibodies are recommended for use with all Super Sensitive™ Detection Systems to provide optimum staining. The Ready-to-Use antibody formats are indicated by catalog numbers prefixed with AC (Antibody Cocktails), AM (Mouse Monoclonal Antibodies), AN (Rabbit Monoclonal Antibodies), AY&AX (Monoclonal Antibodies for Xmatrix®), AW (Polyclonal Antibodies for Xmatrix®) and AR (Polyclonal Antibodies).

Concentrated antibodies are provided with recommended dilutions for optimal use with BioGenex detection systems, allowing rapid titration and testing. These provide a more economical alternative for laboratories doing high volume immunostaining. The concentrated antibody formats are indicated by catalog numbers prefixed with MU (Mouse Monoclonal Antibodies), NU (Rabbit Monoclonal Antibodies) and PU (Polyclonal Antibodies).

All BioGenex concentrated antibodies are thoroughly tested for immunostaining applications and come with recommended dilutions for use with BioGenex detection systems. For specific information on individual antibody titers, please call BioGenex Technical Support at 1(800)421-4149 or write to: support@biogenex.com.

Pack Size

Unless otherwise specified, the following table lists the pack size for the available formats of antibodies:

Description	Pack Size	Order information in Cat. No.
Ready-to-Use (Manual)	6 ml	-5M and -5R
Ready-to-Use (i6000™)	10 ml	-10M and 10R
Ready-to-Use (Xmatrix® Elite/Ultra) Barcoded	16 ml (200 tests) and 5 ml (50 tests)	-YCD and 50D
Concentrated	1 ml and 0.5 ml	-UC and UP or 5UC and 5UP

Tissue Type

Unless otherwise noted, all primary antibodies are optimized for use on routine formalin-fixed paraffin-embedded tissue.

Optimization

All BioGenex primary antibodies are quality controlled and tested to provide optimum immunohistochemical staining when used with the appropriate BioGenex detection system. The correct optimization of antibody and detection system minimizes the potential for false negative or false positive staining.

Recommended Pre-treatment

The recommended pre-treatment for each antibody is provided under each description of the antibody.

BioGenex offers EZ-Retriever® System for Dewaxing, Rehydration and Antigen Retrieval, that streamlines and simplifies tissue pre-treatment. For more details on the system please refer to Automated Systems section.

We recommend that you refer to the datasheet (i.e. package insert) provided with the antibodies for up-to-date information on the pre-treatment conditions or please contact BioGenex Technical Support at 1(800)421-4149 or write to: support@biogenex.com.

Positive Tissue Control Slides And Barrier Slides

BioGenex provides positive tissue control for use with the antibodies. The appropriate catalog number for the positive control slides with and without barrier are provided. For further details, refer to the Tissue Control section.

Antibody Look-Up Table

The table titled as "Antibody Look-Up Table" in the beginning of this section provides comprehensive information on all BioGenex primary antibodies along with positive controls.

IVD Products

Unless specified otherwise, all Primary Antibodies listed in this Section are for *In Vitro* Diagnostic Use.



Antibody Look-up Table

Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
ABCC3	Polyclonal(R)	Mem	COLON CA	IVD	54
Aberrant Endothelial Cell	4A11(M)	Cyt	TONSIL	IVD	54
ACTH	AH26(M)	Cyt	Pituitary	IVD	54
Actin; Muscle-Specific	HHF35(M)	Cyt	MUSCLE	IVD	54
Actin; Smooth Muscle	1A4(M)	Cyt	STOMACH	IVD	55
Adenovirus	A62020069P(M)	Nuc	BION SLIDE	ASR/RUO	55
ALK/p80	SP8(R)	Nuc/Cyt	ADENO CA	IVD	57
Alpha-1-Antichymotrypsin	a1A88(M)	Cyt	LIVER CA	IVD	55
Alpha-1-Antitrypsin	Polyclonal(R)	Cyt	HEPATOCELLULAR CA	IVD	55
Alpha-Actinin	JLN20(M)	Cyt	MUSCLE	IVD	56
Alpha-Fetoprotein (AFP)	C3(M)	Cyt	HEPATOCELLULAR CA	IVD	56
Androgen Receptor	F39.4.1	Nuclear& cytoplasm	PROSTATE HYPER	ASR/RUO	56
Alpha-Tubulin	DM-1A(M)	Cyt	LUNG	IVD	56
Anaplastic Lymphoma Kinase (ALK)	SP144(R)	Mem/Cyt	ANAPLASTIC LYMPHOMA	IVD	57
B Cell	MB2(M)	Cyt	TONSIL	IVD	57
B Lymphocyte Antigen 36; BLA-36	A27-42(M)	Mem	HODGKIN	IVD	57
Basic Fibroblast Growth Factor (bFGF)	bFGF88(M)	Cyt	ADENO CA	IVD	61
Bax Protein	Polyclonal(R)	Cyt/Mem	BREAST CA	IVD	58
BCL-2	EP36(R)	Cyt	BREAST CA	IVD	58
bcl-2 Oncoprotein	bcl-2/100(M)	Cyt	TONSIL	IVD	58
Bcl-2α	SP66(R)	Mem	TONSIL	IVD	58
BCL-6	LN22(M)	Nuc	TONSIL	IVD	59
BCL-X	EP94	Membrane	TONSIL	IVD	59
BCR-ABL	7C6	Nuc	LIVER CA	ASR/RUO	59
Beta-Catenin	EP35(R)	Nuc/Cyt	BREAST	IVD	59
Beta-Tubulin	DM-1B(M)	Cyt	LUNG	IVD	60
Beta-Tubulin II	JDR3B8(M)	Cyt	COLON	IVD	60
Beta-Tubulin III	SDL3D10(M)	Cyt	HEART	IVD	60
Beta-Tubulin IV	ONS1A6(M)	Cyt	LUNG	IVD	60
Blood Group Antigen Lewis A	7LE(M)	Cyt/Mem	STOMACH	IVD	61
Blood Group Antigen Lewis B	2-25LE(M)	Cyt/Mem	STOMACH	IVD	61
BRCA1 Protein	Polyclonal(R)	Mem	BREAST CA	IVD	61
Breast Cancer Antigen (BCA) 225	CU18(M)	Cyt	BREAST CA	IVD	62
CA 125	Ov185:1(M)	Mem/Cyt	OVARY CA	IVD	62
CA 19-9	C241:5:1:4(M)	Cyt	COLON	IVD	62
Caldesmon	EP19(R)	Cyt	UTERUS	IVD	62
Caldesmon HMW, Smooth muscle	h-CD(M)	Cyt	LEIOMYOMA	IVD	63
Calponin	CALP(M)	Cyt	BREAST CA	IVD	63
Calponin-1	EP63(R)	Cyt	PLEOMORPHIC ADENOMA	IVD	63
Calretinin	2E7(M)	Cyt	Cerebellum	IVD	63
Calretinin	Polyclonal(R)	Cyt	CEREBRUM, CORTEX	IVD	64

Please consult the data sheet for pre-treatment and protocol information.
 Unless specified otherwise, all primary antibodies listed in this table are for FFPE tissue specimens

* M: Mouse; R:Rabbit



Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
Calretinin	SP13(R)	Cyt/Mem	MESOTHELIOMA	IVD	64
Carcinoembryonic Antigen (CEA)	B01-94-11M-P(M)	Cyt	COLON CA	IVD	64
Carcinoembryonic Antigen (CEA)	CEA88(M)	Cyt	COLON CA	IVD	64
Carcinoembryonic Antigen (CEA)	Polyclonal(R)	Cyt	COLON CA	IVD	65
Catenin Delta 1 (P120)	Polyclonal (R)	Cyt/Mem	BREAST CA	IVD	65
Cathepsin D	C15(M)	Cyt	BREAST CA	IVD	65
CD1a	O10	Mem/Cyt	LYMPH NODE	IVD	65
CD10	56C6(M)	Mem	KIDNEY	IVD	69
CD103	EP206(R)	Mem	COLON CA	RUO	85
CD105	4G11(M)	Mem/Cyt	UTERUS	IVD	85
CD117	T595(M)	Mem/Cyt	STOMACH	IVD	86
CD117/c-Kit/SCF-Receptor	Polyclonal(R)	Mem/Cyt	GIST	IVD	86
CD11b/ITAM	M01(M)	Mem(Frozen)	FROZEN TONSIL	IVD	69
CD11b/ITAM	EP45(R)	Mem	SPLEEN	IVD	69
CD11c	EP157(R)	Mem	TONSIL	IVD	70
CD13	EP117(R)	Mem	LYMPHOMA	IVD	70
CD138	EP201(R)	Nuc	TONSIL	IVD	86
CD14	EP128(R)	Cyt/Mem	TONSIL	IVD	70
CD146	EP54(R)	Cyt/Mem	PLACENTA	IVD	86
CD15 (Blood group antigen Lewis X)	BRA4F1(M)	Mem/perinuclear/ Cyt	HODGKIN	IVD	70
CD16	2H7(M)	Mem/Cyt	LYMPH NODE	IVD	71
CD16a	SP189(R)	Mem	TONSIL/LUNG	IVD	71
CD16a	SP175(R)	Cyt/Cell-Cell Junctions	TONSIL	IVD	71
CD19	EP169(R)	Mem	TONSIL	IVD	71
CD2	AB75(M)	Mem	LYMPHOMA	IVD	66
CD20	CD20/C23(M)	Mem	SPLEEN	IVD	72
CD20 (B cell)	L-26(M)	Mem	TONSIL	IVD	72
CD205	EP176(R)	Mem/Cyt	TONSIL	RUO	87
CD21	B2(M)	Mem(Frozen)	FROZEN TONSIL	IVD	73
CD21	SP186(R)	Mem	TONSIL	RUO	72
CD21	EP64(R)	Mem	TONSIL	IVD	72
CD22	FPC1(M)	Mem	TONSIL	IVD	73
CD227 (MUCIN 1)	VU-4H5(M)	Cyt	MUCINOUS ADENO CA	IVD	87
CD23	Polyclonal(R)	Mem	LYMPH NOSE	IVD	73
CD27	Polyclonal	Mem	TONSIL	ASR/RUO	73
CD29	JB1a(M)	Mem	BREAST	IVD	74
CD3 (T cell)	UCHT1(M)	Mem(Frozen)	FROZEN TONSIL	IVD	66
CD3 (T Cell)	PS1(M)	Mem	TONSIL	IVD	66
CD3 (T Cell)	EP41(R)	Mem	LYMPHOMA	IVD	66
CD30 (Ki-1 Antigen)	Ber-H2(M)	Mem/Cyt	HODGKIN	IVD	74
CD30 (Ki-1 Antigen)	HRS-4(M)	Mem and perinuclear structures/Cyt	HODGKIN	IVD	74

Please consult the data sheet for pre-treatment and protocol information.
 Unless specified otherwise, all primary antibodies listed in this table are for FFPE tissue specimens

* M: Mouse; R:Rabbit



Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
CD31 (Endothelial Cell)	JC/70A(M)	Mem/Cyt	COLON CA	IVD	74
CD31 (PECAM-1)	9G11(M)	Mem/Cyt	TONSIL	IVD	75
CD34 (Endothelial Cell)	QBend/10(M)	Mem	COLON CA	IVD	75
CD34 (Endothelial Cell)	EP88(R)	Mem	COLON CA	IVD	75
CD35	RLB25(M)	Mem	TONSIL	IVD	76
CD35	SP191(R)	Mem	TONSIL	RUO	75
CD38	SP149(R)	Mem/Cyt	TONSIL	IVD	76
CD4	4B12(M)	Mem	TONSIL	IVD	67
CD4	EP204(R)	Mem	TONSIL	IVD	67
CD40	CL1673	Mem	TONSIL	ASR/RUO	76
CD41/Integrin	EP178(R)	Mem/Cyt	SPLEEN CA	RUO	76
CD43 & CD45RA Cocktail	MT1 & MB1(M)	Mem	TONSIL	IVD	77
CD43 (T Cell, Leukosialin)	DFT-1(M)	Mem	TONSIL	IVD	77
CD43 (T Cell, Leukosialin)	SP55(R)	Mem	TONSIL	IVD	77
CD44 (Phagocytic Glycoprotein-1, HCAM)	DF1485(M)	Mem	TONSIL	IVD	77
CD45 (Leukocyte common Antigen, LCA)	PD7/26/16 & 2B11(M)	Mem	TONSIL	IVD	78
CD45 (Leukocyte common Antigen, LCA)	LJ27.9(M)	Mem	TONSIL	IVD	78
CD45 Cocktail (Leukocyte Antigen, LCA)	MEM55+LJ27.9 (M)	Mem	TONSIL	IVD	78
CD45RA (B cell)	MB1(M)	Mem	TONSIL	IVD	78
CD45RB	MEM55(M)	Mem	TONSIL	IVD	79
CD45RC (T Cell)	MT2(M)	Mem	TONSIL	IVD	79
CD45RO (T Cell)	UCHL-1 (M)	Mem	TONSIL	IVD	79
CD48	EP148(R)	Mem	TONSIL	RUO	79
CD5	4C7(M)	Mem	TONSIL	IVD	67
CD5	EP77(R)	Mem	TONSIL	IVD	67
CD53	EP179(R)	Mem	TONSIL	IVD	80
CD56 (Natural Killer Cell, NCAM)	NKH-1(M)	Mem(Frozen)	FROZEN TONSIL	IVD	80
CD57 (Natural Killer Cell)	NK-1(M)	Mem/Cyt	TONSIL	IVD	80
CD63	EP211(R)	Cyt/Mem	PROSTATE/MELANOMA	RUO	80
CD66	BY114(M)	Mem	TONSIL	IVD	81
CD68	KP1(M)	Cyt	LYMPH NODE	IVD	81
CD68	CD68/G2(M)	Cyt	HISTIOCYTOMA	IVD	81
CD7	LP15(M)	Mem	Tonsil	IVD	68
CD7	SP94(R)	Mem	TONSIL	IVD	68
CD71 (transferrin Receptor)	T9(M)	Mem(Frozen)	FROZEN TONSIL	IVD	81
CD71 (transferrin Receptor)	H68.4(M)	Mem/Cyt	BONE MARROW	IVD	82
CD73	1D7	Mem	TONSIL	ASR/RUO	82
CD74 (B cell)	LN2(M)	Mem/Cyt	TONSIL	IVD	82
CD79a	11E 3(M)	Mem/Cyt	TONSIL	IVD	82
CD79a	EP82(R)	Mem/Cyt	LYMPH NODE	IVD	83
CD79a	SP18(R)	Mem	TONSIL	IVD	83
CD8	T8(M)	Mem(Frozen)	FROZEN TONSIL	IVD	69
CD8	1A5(M)	Mem	Tonsil	IVD	68
CD8	SP16(R)	Mem	TONSIL	IVD	68

Please consult the data sheet for pre-treatment and protocol information.
 Unless specified otherwise, all primary antibodies listed in this table are for FFPE tissue specimens

* M: Mouse; R:Rabbit



Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
CD82	EP160(R)	Mem	ADENO CA	IVD	83
CD90	EP56(R)	Mem/Cyt	THYMUS	IVD	83
CD95	EP208(R)	Mem/Cyt	TONSIL	RUO	84
CD99	HO36.1.1(M)	Mem	EWINGS SARCOMA	IVD	84
CD99	EP8(R)	Mem	EWING'S SARCOMA	IVD	84
CDK1	A17.1.1	Cyt	TONSIL	ASR/RUO	84
CDK2	SP80	Cyt	TONSIL	ASR/RUO	85
CDK9	K.513.1	Nuc	CERVICAL CA	ASR/RUO	85
CDw75 (B cell)	LN1(M)	Mem/Cyt	TONSIL	IVD	87
CDX-2	CDX2-88(M)	Nuc	COLON	IVD	87
CDX-2	EP25(R)	Nuc	COLON CA	IVD	88
CEACAM1	Polyclonal	Mem/Cyt	COLON CA	ASR/RUO	88
c-erbB-2 (HER-2/neu)	SP101(R)	Mem/Cyt	BREAST CA	RUO	88
c-erbB-2 (HER-2/neu)	SP3(R)	Mem/Cyt	BREAST CA	RUO	89
c-erbB-2 (Her-2/neu)	CB11(M)	Mem	BREAST CA	ASR/RUO	89
c-erbB-3 (HER-3)	RTJ1/A2(M)	Mem	BREAST CA	IVD	89
Chromogranin A	LK2H10(M)	Cyt	PANCREAS	IVD	90
Chromogranin A	PHE-5(M)	Cyt	PANCREAS	IVD	90
c-Kit / CD117	EP10(R)	Mem	STOMACH	ASR/RUO	88
Claudin-5	EP224(R)	Cell junction/Mem	LUNG SQUAMOUS CA	IVD	90
c-myc Protein	9E10(M)	Nuc	ADENO CA	IVD	90
Coagulation Factor XIIIa	SP196(R)	Cyt	PLACENTA	IVD	91
Collagen III	HWD1.1(M)	Extracellular matrix	SKIN	IVD	91
Collagen IV	COL-94(M)	Basal laminae/Cyt	SKIN	IVD	91
CSF1R	SP211	Mem	TONSIL	ASR/RUO	91
Cyclin D1	Polyclonal(R)	Nuc	BREAST CA	IVD	92
Cyclin D1	EP12(R)	Nuc/Cyt	BREAST CA	IVD	92
Cyclin E1	EP126(R)	Nuc	PLACENTA	IVD	92
Cytokeratin 10	DEK-10(M)	Cyt	SKIN	IVD	95
Cytokeratin 13	AE8(M)	Cyt	TONSIL	IVD	95
Cytokeratin 14	LL002(M)	Cyt	SQUAMOUS CELL CA	IVD	96
Cytokeratin 14	EP61(R)	Cyt	PROSTATE	IVD	96
Cytokeratin 15	EP14(R)	Cyt	SQUAMOUS	IVD	96
Cytokeratin 17	E27(M)	Cyt	SQUAMOUS CELL CA	IVD	96
Cytokeratin 18	DC-10(M)	Cyt	BREAST CA	IVD	97
Cytokeratin 19	RCK108(M)	Cyt	COLON CA	IVD	97
Cytokeratin 20	IT-Ks20.8(M)	Cyt	COLON CA	IVD	97
Cytokeratin 20	EP23(R)	Cyt	COLON CA	IVD	97
Cytokeratin 4	6B10(M)	Cyt	Tonsil	IVD	93
Cytokeratin 4	EP4(R)	Cyt	ESOPHAGUS	IVD	92
Cytokeratin 5	EP24(R)	Cyt	MESOTHELIOMA	IVD	94
Cytokeratin 5	EP42(R)	Cyt	CERVICAL CA	IVD	93
Cytokeratin 5 & 6	EP24 & EP67	Cyt	CERVICAL CA	IVD	93
Cytokeratin 5 + Cytokeratin 14	EP24 + EP61(R)	Cyt	PROSTATE	RUO	93

Please consult the data sheet for pre-treatment and protocol information.
 Unless specified otherwise, all primary antibodies listed in this table are for FFPE tissue specimens

* M: Mouse; R:Rabbit



Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
Cytokeratin 6	EP67(R)	Cyt	CERVICAL	IVD	94
Cytokeratin 7	OV-TL12/30(M)	Cyt	BREAST CA	IVD	94
Cytokeratin 7 & 8	OV-TL12/30 & C51(M)	Cyt	BREAST CA	IVD	94
Cytokeratin 8	C51(M)	Cyt	BREAST CA	IVD	95
Cytokeratin 8 &18	5D3(M)	Cyt	COLON CA	IVD	95
Cytokeratin Cocktail	AE1 & AE3(M)	Cyt	SKIN	IVD	98
Cytokeratin cocktail, broad spectrum	34□E12/C51/AE1(M)	Cyt	SKIN, BREAST CA	IVD	98
Cytokeratin cocktail, broad spectrum	LL002+DEK-10+RCK108+OV-TL12/30+C11(M)	Cyt	BREAST CA	IVD	98
Cytokeratin HMW (Basic)	AE3(M)	Cyt	SQUAMOUS CELL CA	IVD	99
Cytokeratin, High MW	34□E12(M)	Cyt	PROSTATE	IVD	98
Cytokeratin, Low MW	AE1(M)	Cyt	BREAST CA	IVD	99
Cytokeratin, Pan	Lu-5(M)	Cyt	COLON CA	IVD	99
Cytokeratin, Pan	C11(M)	Cyt	BREAST CA	IVD	99
Cytomegalovirus (CMV)	BM204(M)	Nuc	CMV INF. LUNG	ASR/RUO	100
Desmin	D33(M)	Cyt	LEIOMYMA	IVD	100
DOG1	1.1(M)	Cyt/Mem	Gist	IVD	100
Dystrophin	Dys1 (Dy4/6D3)(M)	Mem	MUSCLE	IVD	100
Dystrophin	Dys2 (Dy8/6C5)(M)	Mem	MUSCLE	IVD	101
E-Cadherin	36(M)	Mem	COLON CA	IVD	101
E-Cadherin	EP6(R)	Mem	BREAST CA	IVD	101
EGFR	Polyclonal(R)	Mem/Cyt	SQUAMOUS CA	ASR/RUO	102
EGFR	EP22(R)	Nuc/Cyt	LUNG SQUAMOUS CA	ASR/RUO	101
Ep-CAM	EP155(R)	Mem	ADENOMA	IVD	102
Epithelial Membrane Antigen (EMA)	E29(M)	Mem/Cyt	LUNG	IVD	102
Epithelial Membrane Antigen (EMA)	Mc5(M)	Mem/Cyt	BREAST CA	IVD	102
Epithelial-Specific Antigen	MOC-31(M)	Mem	COLON CA	IVD	103
Epstein-Barr Virus (EBV) Early Antigen	1108-1(M)	Nuc/Cyt	BION SLIDE	RUO	103
ERG, Ets-Related Gene	EP111(R)	Nuc	PROSTATE	IVD	103
Estradiol	Polyclonal(R)	Nuc	BREAST CA	IVD	103
Estrogen Recepto (ER) Beta	Polyclonal(R)	Nuc	BREAST CA	IVD	104
Estrogen Receptor (ER) Alpha	EP1(R)	Nuc	BREAST CA	ASR/RUO	104
Estrogen Receptor, ER (InSite®)	ER88(M)	Nuc	BREAST CA	IVD	104
Factor VIII-Related Antigen	F8 2.2.9(M)	Cyt	LEIOMYOMA	IVD	104
Factor XIIIa	E980.1(M)	Cyt	PLACENTA	IVD	105
Fascin	FCN01(M)	Cyt	LYMPH NODE	IVD	105
FLI1	Polyclonal(R)	Nuc	EWING'S SARCOMA	IVD	105
Follicle Stimulating Hormone (FSH)	Polyclonal(R)	Cyt	PITUITARY	IVD	105
Gastrin	Polyclonal(R)	Cyt	STOMACH	IVD	106
GCDFP-15	EP95(R)	Cyt/Secreted	BREAST CA	IVD	106
GlTR	Polyclonal	Mem	TONSIL	ASR/RUO	106
Glial Fibrillary Acidic Protein (GFAP)	EP13(R)	Cyt	CEREBELLUM	IVD	106
Glial Fibrillary Acidic Protein (GFAP)	GA-5(M)	Cyt	CEREBELLUM	IVD	107
Glial Fibrillary Acidic Protein (GFAP)	Polyclonal(R)	Cyt	CEREBELLUM	IVD	107

Please consult the data sheet for pre-treatment and protocol information.
 Unless specified otherwise, all primary antibodies listed in this table are for FFPE tissue specimens

* M: Mouse; R:Rabbit



Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
Glomerular Epithelial Protein 1 (GLEPP-1)	5C11(M)	Mem	KIDNEY	IVD	107
Glucagon	Polyclonal(R)	Cyt	PANCREAS	IVD	107
GLUT-1	SPM498(M)	Mem/Cyt	SQUAMOUS CA	IVD	108
Glutathione S-Transferase Pi (GST Pi)	Polyclonal(R)	Nuc/Cyt	BREAST	IVD	108
Glycophorin A+B	E3	Mem	PLACENTA	RUO	108
Glypican-3 (GPC3)	GPC3-88(M)	Cyt/Mem	Hepatocellular Ca	RUO	108
Granulocyte	BM-2(M)	Cyt	Hodgkin	IVD	109
Heat Shock Protein 27 (HSP 27)	G3.1(M)	Cyt	BREAST CA	IVD	109
Heat Shock Protein 70 (HSP 70)	BRM-22(M)	Cyt	BREAST CA	IVD	109
human Growth Hormon (hGH)	Polyclonal (R)	Cyt	PLACENTA	IVD	109
Helicobacter pylori	ULC3R(M)	Epithelium surface and Cytoplasm	STOMACH	ASR/RUO	110
Hemoglobin A	Polyclonal(R)	Cyt	PLACENTA	IVD	110
Hepatitis B Virus Core Antigen (HBcAg)	Polyclonal(R)	Cyt	HEPATITIS	ASR/RUO	110
Herpes Simplex Virus Type I (HSV I)	Polyclonal(R)	Nuc	HSV INF. CULTURE	ASR/RUO	110
Her2/ErbB2	EP3(R)	Mem	Breast Ca	ASR/RUO	89
Herpes Simplex Virus Type II (HSV II)	Polyclonal(R)	Nuc	HSV INF. CULTURE	ASR/RUO	111
HLA-DR	LN3(M)	Mem	TONSIL	IVD	111
HSA	HSA/E8(M)	Cyt	LIVER	IVD	111
Human Chorionic Gonadotropin (hCG) Beta	M94138(M)	Cyt	PLACENTA	IVD	111
IDO	4D2	Cyt	Spleen	ASR/RUO	112
IgA	Polyclonal(R)	Mem/Cyt	TONSIL	IVD	112
IgD	Polyclonal(R)	Mem/Cyt	TONSIL	IVD	112
IgG	IgG88(M)	Mem/Cyt	TONSIL	IVD	112
IgG	Polyclonal(R)	Mem/Cyt	TONSIL	IVD	113
IgM	IgM88(M)	Mem/Cyt	TONSIL	IVD	113
IgM	Polyclonal(R)	Mem/Cyt	TONSIL	IVD	113
Inhibin-Alpha	R1(M)	Cyt	OVARY	IVD	113
Insulin	HB125(M)	Cyt	PANCREAS	IVD	114
Insulin	EP125(R)	Cyt	PANCREAS	IVD	114
J chain	JC88(M)	Cyt	TONSIL, LYMPH NODE	IVD	114
J chain	SP105(R)	Perinuclear spaces and endoplamic reticulum of lymphocytes	TONSIL	IVD	114
Kappa Light Chain	L1C1(M)	Cyt	TONSIL	IVD	115
Kappa Light Chain	K88(M)	Cyt	Tonsil	IVD	115
Ki-67	MIB-1(M)	Nuc	LYMPHOMA, LYMPH NODE, TONSIL	IVD	115
Ki-67	K-2(M)	Nuc	TONSIL	IVD	115
Ki-67	Ki88(M)	Nuc	Lymphoma, Lymph Node, Tonsil	IVD	116
KRAS	Polyclonal(R)	Mem	COLON CA	IVD	116
LAG3	Polyclonal	Cyt	TONSIL	ASR/RUO	116
Lambda Light Chain	Polyclonal(R)	Cyt	TONSIL	IVD	116
Lambda light chain	EP172(R)	Cyt	Tonsil	IVD	117

Please consult the data sheet for pre-treatment and protocol information.
 Unless specified otherwise, all primary antibodies listed in this table are for FFPE tissue specimens

* M: Mouse; R:Rabbit



Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
Lambda Light Chain	SP147(R)	Cyt	TONSIL	IVD	117
Laminin	Polyclonal(R)	Basement Mem	BRONCHUS	IVD	117
Luteinizing Hormone (LH)	SP132(R)	Cyt/Perinuclear/ Surface/Nuc	PITUITARY	IVD	117
Lysozyme	Polyclonal(R)	Cyt	LYMPH NODE	IVD	118
Macrophage	LN5(M)	Cyt	LIVER	IVD	118
Mast Cell Tryptase	AA1(M)	Cyt	SKIN	IVD	118
MCM2	SP85(R)	Nuc	CERVICAL CA	IVD	118
MCM2	EP40(R)	Nuc	TONSIL	IVD	119
Melan-A (MART-1)	A103(M)	Cyt	MELANOMA	IVD	119
Melanoma	HMB45(M)	Cyt	MELANOMA	IVD	119
Melanoma gp100	gp100/D5(M)	Cyt	MELANOMA	IVD	119
Melanoma-Associated Antigen	NKI/C3(M)	Cyt/Mem	MELANOMA	IVD	120
Mesothelin	5B2(M)	Mem	OVARYADENOMA	IVD	120
MITF	MITF/A13(M)	Nuc	MELANOMA	IVD	120
Mitochondrial Antigen	113-1(M)	Cyt	LIVER	IVD	120
MLH1	ES05(M)	Nuc	COLON	IVD	121
MMP-9	EP127(R)	Mem/Cyt	BONE MARROW	IVD	121
MSH2	SP46(R)	Nuc	COLON CA	IVD	121
MSH2	RED2(R)	Nuc	COLON CA	IVD	122
MSH6	2D4B5(M)	Nuc	Colon Ca	IVD	122
MUC4	1G8(M)	Cyt	COLON CA	IVD	122
MUC5AC	45M1(M)	Cyt	GASTRO-INTESTINE	IVD	122
Mucin 1 (MUC1)	EP85(R)	Mem	BREAST	IVD	121
Mucin 2 (MUC2)	CCP58(M)	Cyt	COLON CA	IVD	123
Multi-Drug Resistance Marker (P-Glycoprotein)	MDR88(M)	Mem/Cyt	ADRENAL GLAND	IVD	123
Mum/IRF4	SP114(R)	Nuc	HODGKINS	IVD	123
Muscle Actins	Actin 88 Cocktail(M)	Cyt	MUSCLE	IVD	123
Myelin Basic Protein	MBP88(M)	Cyt	CEREBELLUM	IVD	124
Myeloid Specific Antigen	BM-1(M)	Cyt	LYMPH NODE	IVD	124
Myeloid Specific Antigen	BM-3(M)	Cyt	LYMPH NODE	IVD	124
Myeloperoxidase (MPO)	Polyclonal(R)	Cyt	SPLEEN	IVD	124
Myf4	LO26(M)	Nuc	RHABDOMY -OSARCOMA	IVD	125
Myogenin	EP162(R)	Nuc	RHABDOMY -OSARCOMA	IVD	125
Myoglobin	MG-1(M)	Cyt	MUSCLE	IVD	125
Myoglobin	Polyclonal(R)	Cyt	MUSCLE	IVD	125
Myosin Heavy Chain, Smooth Muscle	SMMS.1(M)	Cyt	BREAST	IVD	126
Myosin, Skeletal Muscle	MY-32(M)	Cyt	MUSCLE	IVD	126
Napsin A	IP64(M)	Cyt	LUNG / ADENO CA	IVD	126
Neurofilament	NE-14(M)	Cyt	NERVE	IVD	126
Neuron Specific Enolase (NSE)	MIG-N3(M)	Cyt	NERVE	IVD	127
NGF Receptor	EP31(R)	Mem	BRAIN	IVD	127
Oct-02	EP115(R)	Nuc	TONSIL	IVD	127

Please consult the data sheet for pre-treatment and protocol information.
 Unless specified otherwise, all primary antibodies listed in this table are for FFPE tissue specimens

* M: Mouse; R:Rabbit



Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
Oct-04	EP143(R)	Nuc	TESTIS	IVD	128
Osteonectin	OST1(M)	Cyt	OSTEOSARCOMA	IVD	128
p105 PANA	2B3(M)	Nuc	TONSIL	IVD	128
p120 (Catenin delta 1)	SP63(R)	Mem/Cyt	BREAST	IVD	129
p16 (INK4a)	G175-405(M)	Nuc/Cyt	CERVICAL CARINOMA, SQUAMOUS CELL CARINOMA	RUO	128
p21/WAF1	4D10(M)	Nuc	MELAMONA	IVD	129
p27 (Kip1)	DCS72(M)	Nuc	BREAST	IVD	129
p27 (Kip1)	EP104(R)	Nuc/Cyt	BREAST	IVD	129
p34 (cdc2 Cyclin Dependent Kinase)	POH-1(M)	Nuc/Cyt	Tonsil	IVD	130
P504S (AMACR)	13H4(R)	Cyt	PROSTATE CA	ASR/RUO	130
P504S (AMACR)	RBT-AMACR(R)	Cyt	PROSTATE CA	IVD	130
P53	EP9(R)	Nuc	Breast Ca	IVD	130
p53 Protein	BP53-12-1(M)	Nuc	BREAST CA	IVD	131
p53 Protein	DO7(M)	Nuc	BREAST CA.	IVD	131
p53 Protein	1801(M)	Nuc	Breast Ca	IVD	131
PAP	A40010(M)	Cyt	PROSTATE CA	IVD	131
Papillomavirus Type 16 (HPV-16)	Cam Vir-1(M)	Nuc/Cyt	HPV INF	ASR/RUO	132
Pax-5	ZP007(M)	Nuc	TONSIL	IVD	132
Paxillin	EP89(R)	Cyt	BREAST CA	IVD	132
PD-1	NAT105	Mem	TONSIL	IVD	132
PDCD4	EP102(R)	Cyt/Nuc	COLON CA	IVD	133
PGP9.5	3D9(M)	Cyt	BRAIN	IVD	133
Placental Alkaline Phosphatase (PLAP)	PL8-F6(M)	Cyt	PLACENTA	IVD	133
Placental Lactogen (hPL)	Polyclonal(R)	Cyt	PLACENTA	IVD	133
Platelet-Derived Growth Factor (PDGF)	PDGF88(M)	Cyt	SQUAMOUS CA	IVD	134
Platelet-Derived Growth Factor (PDGF)	Polyclonal(R)	Cyt	SQUAMOUS CA	IVD	134
PMS2	EP51(R)	Nuc	COLON CA	ASR/RUO	134
Progesterone Receptor	1A6(M)	Nuc	BREAST CA	ASR/RUO	135
Progesterone Receptor (PR)	EP2(R)	Nuc	BREAST CA	ASR/RUO	134
Progesterone Receptor, PR (InSite®)	PR88(M)	Nuc	Breast CA	IVD	135
Prolactin	ME.121(M)	Cyt/Mem	Pituitary	IVD	135
Proliferating Cell Nuclear Antigen (PCNA)	PC10(M)	Nuc	COLON CA	IVD	135
Prostate Specific Acid Phosphatase (PSAP)	B01-94-21M-NA(M)	Cyt	PROSTATE HYPER	IVD	136
Prostate Specific Antigen (PSA)	ErPr8(M)	Cyt	PROSTATE HYPER	IVD	136
pS2 Estrogen Inducible Protein	PS2.1(M)	Cyt	BREAST CA	IVD	136
PSMA	EP192(R)	Cyt/Mem	PROSTATE	IVD	137
PSMA	SP29(R)	Cyt/Mem	PROSTATE CA	IVD	136
PTEN	SP218(R)	Mem/Cyt/Nuc	PROSTATE CA	IVD	137
PU.1	EP18(R)	Nuc	LYMPHOMA	IVD	137
Renal Cell Carcinoma (RCC)	RCC-26(M)	Cyt/Mem	RENAL CELL CARCINOMA	IVD	137
Ribonucleoprotein (RNP)	58-15(M)	Nuc	SPLEEN	IVD	127
S100 Beta	EP32(R)	Cyt	MELANOMA	IVD	138

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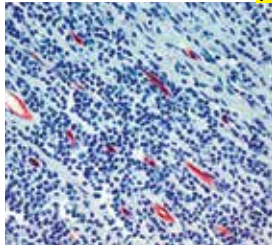
Antibody	Clone (Species)*	Localization	Positive Control	Regulatory Classification	Page
S-100 Protein	15E2E2(M)	Nuc/Cyt	MELANOMA	IVD	138
S-100 Protein	Polyclonal(R)	Nuc/Cyt	MELANOMA	IVD	138
S100P	EP186(R)	Cyt/Nuc	MELANOMA	IVD	138
Sarcomeric Actin	ZMSA-5(M)	Cyt	MUSCLE	IVD	139
Secretin	Polyclonal(R)	Cyt	STOMACH	IVD	139
SLAMF7	Polyclonal	Mem	TONSIL	ASR/RUO	139
SOX2	EP103(R)	Nuc	SQUAMOUS	IVD	139
SOX2	Polyclonal(R)	Nuc	UTERUS CERVIX	IVD	140
Substance P	Polyclonal(R)	Cyt	HYPOTHALAMUS	IVD	140
Survivin	EP119(R)	Nuc/Cyt	BLADDER	IVD	140
Synaptophysin	Snp88(M)	Cyt	PANCREAS	IVD	140
Synaptophysin	EP158(R)	Cyt	PANCREAS	IVD	141
Tau	TAU-2(M)	Cyt	CEREBELLUM	IVD	141
Tau	Tau-5(M)	Cyt	CEREBELLUM	IVD	141
Terminal Deoxynucleotidyl Transferase (TdT)	EP266(R)	Nuc	THYMOMA	IVD	141
Thyroglobulin	2H11(M)	Cyt	FOLLICULAR ADENOMA	IVD	142
Thyroid Stimulating Hormone (TSH)	5404(M)	Cyt	Pituitary	IVD	142
Thyroid Stimulating Hormone (TSH)	Polyclonal(R)	Cyt	Pituitary	IVD	142
Thyroxine	D5(M)	Cyt	THYROID	IVD	142
TIA-1	2G9A10F5(M)	Cyt	ANAPLASTIC LARGE	IVD	143
Topoisomerase II, Alpha (TOP2A)	EP93(R)	Nuc	BREAST CA	IVD	143
Toxoplasma gondii	Polyclonal(R)	Cyt	TOXOPLASMA INF.	ASR	143
Transferrin	HT1/13.6.3(M)	Cyt	LIVER	IVD	143
Transforming Growth Factor (TGF) Alpha	TGF88(M)	Cyt	BREAST CA	IVD	144
Tumor-Associated Glycoprotein (TAG-72)	B72.3(M)	Cyt	BREAST CA	IVD	144
Tumor-Associated Glycoprotein (TAG-90 BCA)	B6.2(M)	Cyt	BREAST CA	IVD	144
Thyroid Transcription Factor (TTF-1)	SP141	Nucleus	Thyroid	IVD	144
Tyrosinase	Ty/G5(M)	Cyt	MELANOMA	IVD	145
VEGF	Polyclonal(R)	Cyt	ANGIOSARCOMA	IVD	145
Vimentin	V9(M)	Cyt	LEIOMYOMA	IVD	145
Vimentin	LN6(M)	Cyt	LEIOMYOMA	IVD	145
VIP	Polyclonal(R)	Cyt	COLON	IVD	146
ZAP-70	ZAP70-C3(M)	Cyt/Mem	TONSIL	IVD	146
ZAP-70	EP52(R)	Cyt/Mem	TONSIL	IVD	146

Please consult the data sheet for pre-treatment and protocol information.
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* M: Mouse; R:Rabbit



Aberrant Endothelial Cell



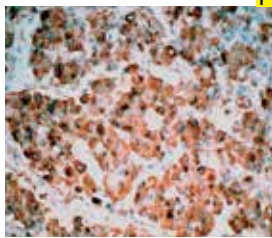
Tonsil stained with Anti-Aberrant Endothelial cell using AEC chromogen

Clone: 4A11
 Isotype: IgM
 Source: Mouse
 Immunogen: Human rheumatoid cells
 Specificity: Vascular endothelial cell Antigen
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM382-5M
Ready-to-Use (Automated):	
<i>i</i> 6000™	AM382-10M
Xmatrix®	AX382-YCD, AX382-50D
Concentrated:	MU382-UC, MU382-5UC
Recommended Positive Control:	FG-382M
Recommended Barrier Control:	FB-382M

In an in vivo model of allergic contact dermatitis, 4A11 antigen was differentially upregulated from other endothelial markers such as E-selectin, vascular cell adhesion molecule-1, and intercellular adhesion molecule-1. Monoclonal antibody 4A11 reacts with the H-5-2 and Lewis Y-6 blood group glycolipids. This antibody reacts with vascular endothelial cells in lymphoid tissues and endothelial cells in diseased tissue such as rheumatoid and osteoarthritic synovium, psoriatic skin, adrenal tumors and cutaneous Kaposi's sarcomas. It does not react with several myeloid or lymphoid cell lines, peripheral blood cells and platelets. It does not detect endothelium of medium-sized vessels and that of normal tissues such as liver and spleen.

ACTH



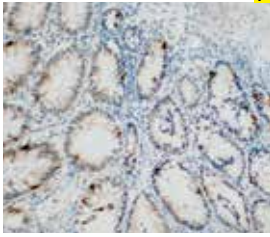
Pituitary tissue stained with Anti-ACTH using DAB chromogen

Clone: AH26
 Isotype: IgG
 Source: Mouse
 Immunogen: A synthetic peptide corresponding to amino acids 1-24 from the N-terminal of human ACTH
 Specificity: ACTH
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM487-5M
Ready-to-Use (Automated):	
<i>i</i> 6000™	AM487-10M
Xmatrix®	AX487-YCD, AX487-50D
Concentrated:	MU487-UC, MU487-5UC
Recommended Positive Control:	FG-487M
Recommended Barrier Control:	FB-487M

Adrenocorticotrophic hormone (ACTH or Corticotropin) is a polypeptide tropic hormone produced and secreted by the anterior pituitary gland. It is an important component of the hypothalamic-pituitary-adrenal axis and is often produced in response to biological stress (along with corticotrophin-releasing hormone from the hypothalamus). Its principal effects are increased production of androgens and as its name suggests, cortisol from the adrenal cortex. It labels corticotrophs in the adenohypophysis and is useful in the classification of pituitary adenomas.

ABCC3



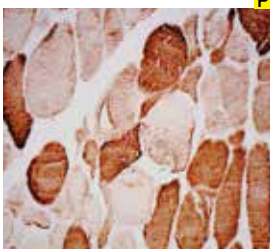
Colon stained with anti-Human ABCC3 using DAB chromogen

Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: ABCC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 899-925 amino acids from the central region of human ABCC3.
 Specificity: Human ABCC3
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR800-5R
Ready-to-Use (Automated):	
<i>i</i> 6000™	AR800-10R
Xmatrix®	AW800-YCD, AW800-50D
Concentrated:	PU800-UP, PU800-5UP
	PU800-1UP
Recommended Positive Control:	FG-800P
Recommended Barrier Control:	FB-800P

ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. The specific function of this protein has not yet been determined; however, this protein may play a role in the transport of biliary and intestinal excretion of organic anions.

Actin, Muscle-Specific



Heart muscle stained with Anti-Muscle Specific Actin using DAB chromogen

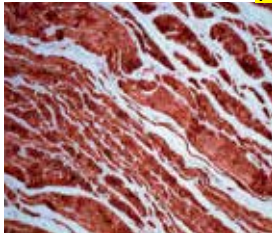
Clone: HHF35
 Isotype: IgG1
 Source: Mouse
 Immunogen: Homogenized human myocardium
 Specificity: Muscle-specific Actin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM090-5M
Ready-to-Use (Automated):	
<i>i</i> 6000™	AM090-10M
Xmatrix®	AX090-YCD, AX090-50D
Concentrated:	MU090-UC, MU090-5UC
	MU090-1UC
Recommended Positive Control:	FG-090M
Recommended Barrier Control:	FB-090M

Actin, a major component of the cytoskeleton, is a globular protein about 5 nm in diameter and is composed of one polypeptide chain with a mass of approximately 47kD. This antibody recognizes alpha actin of skeletal, cardiac and smooth muscle cells and gamma actin from smooth muscle cells. It is non-reactive with other mesenchymal cells and all epithelial cells except for myoepithelium. It can be used to stain leiomyomas, leiomyosarcomas, rhabdomyomas and rhabdomyosarcomas. This antibody labels cytoplasm in skeletal, cardiac and smooth muscle cells.



Actin, Smooth Muscle (SMA)



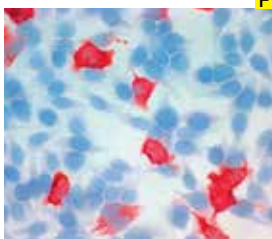
Stomach tissue stained with Anti-Smooth Muscle Actin using DAB chromogen

P Clone: 1A4
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Synthetic NH2 terminal decapeptide of alpha smooth muscle actin coupled to keyhole limpet hemocyanin (KLH)
 Specificity: Alpha Smooth Muscle Actin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM128-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM128-10M AX128-YCD, AX128-50D
Concentrated:	MU128-UC, MU128-5UC MU128-1UC
Recommended Positive Control:	FG-128M
Recommended Barrier Control:	FB-128M

Actin is one of the two major cytoskeletal proteins. The antibody can be used to identify smooth muscle tumors. It stains leiomyomas and leiomyosarcomas but does not stain carcinomas, melanomas, lymphomas or non-smooth muscle sarcomas. It stains the muscularis and muscularis mucosa of the gastrointestinal tract, the uterine myometrium, medial layer of blood vessels, the mesenchymal components of the prostate, and myoepithelial cells of salivary glands and other organs. The antibody does not stain striated muscle such as skeletal and cardiac muscle, endothelium, connective tissue, epithelium or nerve. This antibody stains positive in cytoplasm of smooth muscle cells.

Adenovirus



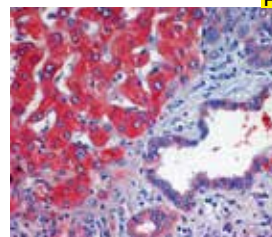
Adenovirus cell culture stained using AEC chromogen

F Clone: A62020069P
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Adeno 3 strain
 Specificity: Adenovirus antigen/immunogen in frozen tissue sections or infected cell culture.
 Localization: Nuclear
 Pre-treatment: None

Ready-to-Use (Manual):	AM059-5M (ASR)
Ready-to-Use (Automated): i6000™ Xmatrix®	AM059-10M (RUO) AX059-YCD, AX059-50D (RUO)
Concentrated:	MU059-UC, MU059-5UC MU059-1UC (ASR)
Recommended Positive Control:	FG-059M
Recommended Barrier Control:	FB-059M

This antibody stains Adenovirus in the nucleus and cytoplasm of infected cells or tissues stained by immunohistochemical techniques. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

Alpha-1-Antichymotrypsin



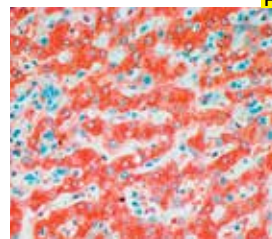
Liver stained with Anti-ACT using AEC chromogen

P Clone: α1A88
 Isotype: IgG1, Kappa
 Source: Mouse
 Immunogen: Biochemically purified alpha-1-antichymotrypsin protein was used to sensitize Balb/c (H-2d) mice
 Specificity: Alpha-1-Antichymotrypsin protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM388-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM388-10M AX388-YCD, AX388-50D
Concentrated:	MU388-UC, MU388-5UC
Recommended Positive Control:	FG-388M
Recommended Barrier Control:	FB-388M

Alpha-1-Antichymotrypsin (ACT) is a serine protease inhibitor. It forms a complex with serine protease, a prostate-specific antigen in human serum. ACT can be found in most cells of myeloid lineage and is, therefore, useful in the identification of neoplastic myeloid cells within extramedullary tissues such as acute myeloid leukemia. This enzyme is also localized in the spindle cells and round cells of true histiocytic lymphomas as well as in most thyroid papillary carcinomas. ACT is expressed in various normal and neoplastic cells. The mouse monoclonal antibody stains ACT protein in the cytoplasm of many different cells.

Alpha-1-Antitrypsin



Liver tissue stained with Anti-alpha-1-Antitrypsin using AEC chromogen

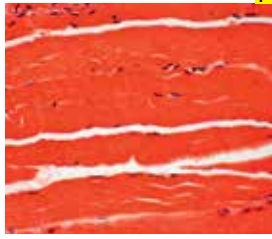
P Clone: Polyclonal
 Isotype: N/A
 Source: Rabbit
 Immunogen: Human plasma
 Specificity: Alpha-1-Antitrypsin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR015-5R
Ready-to-Use (Automated): i6000™ Xmatrix®	AR015-10R AW015-YCD, AW015-50D
Concentrated:	PU015-UP, PU015-5UP
Recommended Positive Control:	FG-015P
Recommended Barrier Control:	FB-015P

Alpha-1-Antitrypsin (AAT) is a 54 kD glycoprotein. Most of the anti-proteolytic enzyme activity of serum resides in this fraction. It is also found in lymph, mucus, saliva, synovial fluid, gastrointestinal tract secretions, semen, amniotic fluid and colostrum. It is a useful marker for benign and malignant hepatic neoplasms, endodermal sinus tumors, and for histiocytic differentiation in benign and malignant fibrous histiocytomas. This antibody has been absorbed with fractionated human plasma to remove contaminating antibodies. When tested by crossed immunoelectrophoresis against human plasma, a single precipitin line was observed.



Alpha-Actinin



P

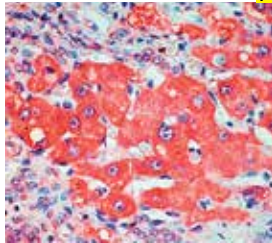
Clone: JLN20
 Isotype: IgM
 Source: Mouse
 Immunogen: Alpha-actinin isolated from chicken gizzard
 Specificity: Alpha-Actinin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Muscle stained with Anti-alpha actinin using AEC chromogen

Ready-to-Use (Manual):	AM097-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM097-10M AX097-YCD, AX097-50D
Concentrated:	MU097-UC, MU097-5UC MU097-1UC
Recommended Positive Control:	FG-097M
Recommended Barrier Control:	FB-097M

Actinins are actin-binding proteins of 100 kD. Alpha-Actinin is an F-actin cross-linking protein thought to anchor actin to a variety of intracellular structures. Alpha-Actinin is found in stress fibers and adhesion plaques in non-muscle cells and in Z-discs and their homologues in muscle cells.

Alpha-Fetoprotein (AFP)



P

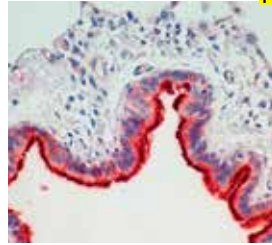
Clone: C3
 Isotype: IgG 2a
 Source: Mouse
 Immunogen: Affinity-purified human Alpha-Fetoprotein
 Specificity: Alpha-Fetoprotein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Hepatocellular carcinoma stained with Anti-AFP using AEC chromogen

Ready-to-Use (Manual):	AM008-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM008-10M AX008-YCD, AX008-50D
Concentrated:	MU008A-UC, MU008A-5UC
Recommended Positive Control:	FG-008M
Recommended Barrier Control:	FB-008M

Alpha-Fetoprotein (AFP) is a 64 kD tumor-associated embryonal antigen produced by fetal liver, hepatoma, yolk sac, and several germ cell tumors of testicular and ovarian origin. Of the germ cell tumors, only embryonal carcinoma and endodermal sinus tumors stain positive for AFP and not teratomas. The positive results are useful in distinguishing embryonal carcinoma from seminoma. AFP is present in the mononuclear embryonal carcinoma cell and in the intracellular or extracellular hyaline droplets. This antibody stains positive for alpha fetoprotein in the cytoplasm of positive cells.

Alpha-Tubulin



P

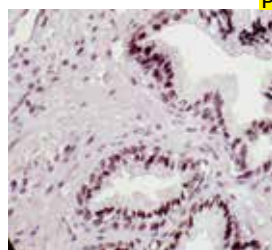
Clone: DM-1A
 Isotype: IgG1
 Source: Mouse
 Immunogen: Alpha-Tubulin isolated from chick brain microtubules
 Specificity: Alpha-Tubulin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Lung tissue stained with Anti-Alpha-Tubulin using AEC chromogen

Ready-to-Use (Manual):	AM121-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM121-10M AX121-YCD, AX121-50D
Concentrated:	MU121-UC, MU121-5UC MU121-1UC
Recommended Positive Control:	FG-121M
Recommended Barrier Control:	FB-121M

Microtubules, along with microfilaments and intermediate filaments, form the major part of the extensive cytoplasmic network known as the cytoskeleton. The thickest of these filaments are the 20-25 nm microtubules composed of tubulin and several additional microtubule-associated proteins (MAP). Tubulin is a heterodimer composed of α -tubulin and β -tubulin. Each subunit is a 55 kD acidic protein. Tubulin assembles into the microtubule system during interphase, then reassembles into the mitotic spindle during cell division. This antibody reacts specifically with the alpha subunit of tubulin in cultured chicken fibroblasts, human, bovine, murine, and amphibian cells, and also in yeast and fungi.

Androgen Receptor



P

Clone: F39.4.1
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Synthetic peptide sequence comprising amino acids 301-320 of human androgen receptor (SP61).
 Specificity: Androgen Receptor antigen
 Localization: Nuclear&cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

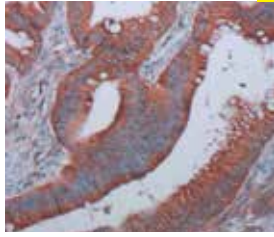
Prostate Hyperplasia showing nuclear Androgen Receptor positivity using DAB chromogen

Ready-to-Use (Manual):	AM256-5M (ASR)
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM256-10M (RUO) AX256-YCD, AX256-50D (RUO)
Concentrated:	MU256-UC, MU256-5UC MU256-1UC (ASR)
Recommended Positive Control:	FG-256M
Recommended Barrier Control:	FB-256M

This monoclonal antibody is specifically designed to recognize a unique immunogenic N-terminal transactivation domain of the androgen receptor that has a low degree of homology with other steroid receptors. This antibody binds to synthetic peptide SP61 of human androgen receptor. This antibody does not cross-react with human estrogen, progesterone or glucocorticoid receptor. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**



ALK/p80



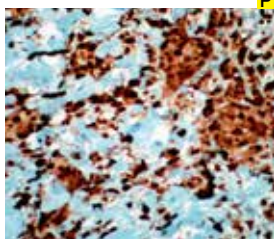
Lung stained with anti-Human ALK/p80 using DAB chromogen

Clone: SP8
Isotype: IgG
Source: Rabbit
Immunogen: Recombinant protein corresponding to a region which spans the tyrosine kinase catalytic domain and part of the C-terminus of the NPM-ALK transcript
Specificity: Human ALK/p80
Localization: Cytoplasmic and nuclear
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN770-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN770-10M AY770-YCD, AY770-50D
Concentrated:	NU770-UC, NU770-5UC NU770-1UC
Recommended Positive Control:	FG-770N
Recommended Barrier Control:	FB-770N

This antibody recognizes a human p80 protein, identified as a hybrid of the anaplastic lymphoma kinase (ALK) gene and the nucleophosmin (NPM) gene resulting from the t(2;5)(p23;q35) translocation found in a third of large cell lymphomas. This antibody can be used to detect p80 in these lymphomas and may also be used to detect a recently described subtype of large B cell lymphoma, which expresses the full-length ALK protein.

ALK



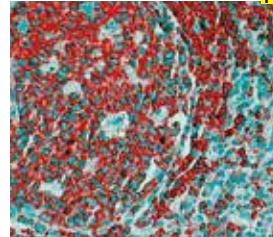
Anaplastic lymphoma stained with anti-Human ALK using DAB chromogen

Clone: SP144
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide derived from the internal region of human ALK protein
Specificity: Human ALK
Localization: Membrane/Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN874-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN874-10M AY874-YCD, AY874-50D
Concentrated:	NU874-UC, NU874-5UC NU874-1UC
Recommended Positive Control:	FG-874N
Recommended Barrier Control:	FB-874N

Anaplastic lymphoma kinase is a receptor tyrosine kinase. Chromosomal translocations involving ALK have been found to be associated with different diseases such as anaplastic large cell lymphomas (ALCLs) and non small-cell lung cancer (NSCLC). The constitutively active fusion proteins are responsible for most of anaplastic large cell non-Hodgkin's lymphomas. The EML4-ALK fusion gene is responsible for approximately 3-5% of NSCLC. EML4-ALK-rearrangement in NSCLC is exclusive and not found in EGFR- or KRAS-mutated tumors.

B Cell



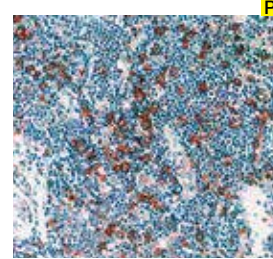
Tonsil tissue stained with Anti-B cell using Fast Red Chromogen

Clone: MB2
Isotype: IgG1
Source: Mouse
Immunogen: Hodgkin's lymphoma cell line DEV
Specificity: MB2
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM158-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM158-10M AX158-YCD, AX158-50D
Concentrated:	MU158-UC, MU158-5UC MU158-1UC
Recommended Positive Control:	FG-158M
Recommended Barrier Control:	FB-158M

MB2 reacts with a cytoplasmic antigen present in all B cells with the exception of plasma cells. It also reacts with endothelial cells and various types of epithelial cells. MB2 shows no reaction with T lymphocytes or thymocytes. A faint staining may occur when using frozen sections containing T cells. MB2 is not suitable for immunolabeling of living or unfixed cells.

B Lymphocyte Antigen 36 (BLA.36)



Hodgkin stained with Anti-BLA.36 using DAB chromogen

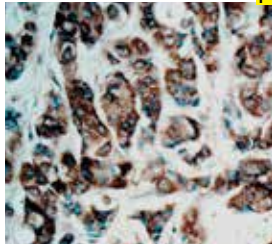
Clone: A27-42
Isotype: IgG3
Source: Mouse
Immunogen: Hodgkin's cell line HDLM-3
Specificity: BLA.36 antigen
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM231-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM231-10M AX231-YCD, AX231-50D
Concentrated:	MU231-UC, MU231-5UC
Recommended Positive Control:	FG-231M
Recommended Barrier Control:	FB-231M

BLA.36 is a developmentally regulated 36 kD antigen expressed on the plasma membrane of B lymphocytes, Reed-Sternberg, and mononuclear Hodgkin's cells. The anti-BLA.36 antibody recognizes all four subtypes of Hodgkin's disease. It also gives strong staining of B cell lymphomas including follicular center cell lymphomas (large and small cell types), mantle zone lymphomas, and immunoblastic lymphomas. No reactivity of anti-BLA.36 is found in normal epithelial cells, including adrenal gland, breast, colon, lung, salivary gland, skin, stomach and their malignant counterparts. Anti-BLA.36 can be used to distinguish Reed-Sternberg cells and some B-cell lymphomas from other malignant cells.



Bax Protein



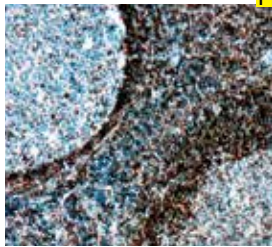
Breast carcinoma stained with Anti-Bax Protein using DAB chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: A synthetic peptide encompassing a unique epitope at the amino terminus of human Bax protein coupled to Keyhole Limpet Hemocyanin (KLH)
 Specificity: Bax protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR347-5R
Ready-to-Use (Automated):	
i6000™	AR347-10R
Xmatrx®	AW347-YCD, AW347-50D
Concentrated:	PU347-UP, PU347-5UP
Recommended Positive Control:	FG-347P
Recommended Barrier Control:	FB-347P

Bax protein is identified as a promoter of apoptosis. The override of apoptotic control is suspected to cause or contribute to some forms of carcinogenesis. This antibody will detect the α, β, and d isoforms of Bax protein.

Bcl-2



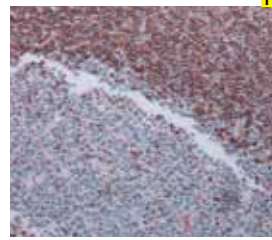
Tonsil stained with Anti-Bcl 2 using DAB chromogen

Clone: EP36
 Isotype: IgG1
 Source: Rabbit
 Immunogen: BCL-2
 Specificity: BCL-2
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1 elegance
 Manual/i6000: HK546-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AN723-5M
Ready-to-Use (Automated):	
i6000™	AN723-10M
Xmatrx®	AY723-YCD, AY723-50D
Concentrated:	NU723-UC, NU723-5UC
Recommended Positive Control:	FG-723N
Recommended Barrier Control:	FB-723N

Bcl-2 (B-cell lymphoma 2), encoded in humans by the Bcl-2 gene, is the founding member of the Bcl-2 family of regulator proteins that regulate cell death, by either inducing it (pro-apoptotic) it or inhibiting it (anti-apoptotic). Bcl-2 is specifically considered as an important anti-apoptotic protein and is thus classified as an oncogene. Over expression of Bcl-2 has been shown to promote cell survival by suppressing apoptosis. It has been documented that Bcl-2 becomes deregulated in tumor cells as a result of translocation into the immunoglobulin heavy-chain locus and is therefore activated in B cell malignancies. Bcl-2 is useful in differentiation of follicular lymphoma from reactive follicular proliferation (Bcl-2 negative). In addition, Bcl-2 has been shown to be correlated with disease prognosis in breast cancer, prostate and ovarian cancer.

Bcl-2 Alpha



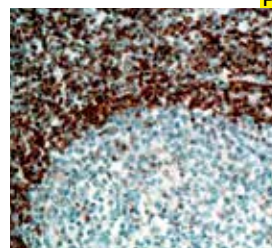
Tonsil stained with anti-Human Bcl-2 Alpha using DAB chromogen

Clone: SP66
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to N-terminus of human Bcl-2 Alpha
 Specificity: Human Bcl-2 Alpha
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN758-5M
Ready-to-Use (Automated):	
i6000™	AN758-10M
Xmatrx®	AY758-YCD, AY758-50D
Concentrated:	NU758-UC, NU758-5UC
Recommended Positive Control:	FG-758N
Recommended Barrier Control:	FB-758N

Expression of Bcl-2 alpha oncoprotein inhibits the programmed cell death (apoptosis). In most follicular lymphomas, neoplastic germinal centers express high levels of Bcl-2 alpha protein, whereas the normal or hyperplastic germinal centers are negative. Bcl-2 is useful in differentiation of follicular lymphoma from reactive follicular proliferation (Bcl-2 negative). In addition, Bcl-2 has been shown to be correlated with disease prognosis in breast cancer, prostate cancer and ovarian cancer.

Bcl-2 Oncoprotein



Tonsil tissue stained with Anti-Bcl-2 using DAB chromogen

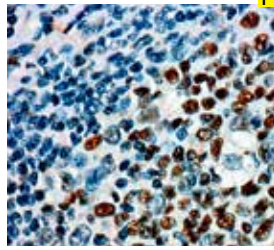
Clone: bcl-2/100
 Isotype: IgG1 kappa
 Source: Mouse
 Immunogen: Synthetic peptide comprising residues 41-54 of Bcl-2 oncoprotein-3
 Specificity: Bcl-2 protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM287-5M
Ready-to-Use (Automated):	
i6000™	AM287-10M
Xmatrx®	AX287-YCD, AX287-50D
Recommended Positive Control:	FG-287M
Recommended Barrier Control:	FB-287M

The Bcl-2 is an integral inner mitochondrial membrane protein and is frequently overexpressed in many lymphoid malignancies. Immunohistologic studies have demonstrated that staining for Bcl-2 protein can be used to distinguish neoplastic germinal centers from reactive ones.



Bcl-6



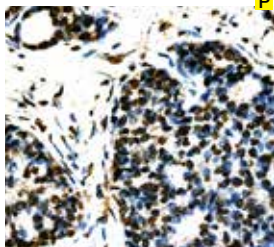
Tonsil stained with Anti-Bcl-6 using DAB chromogen

Clone: LN22
 Isotype: IgG
 Source: Mouse
 Immunogen: Bcl-6
 Specificity: Bcl-6
 Localization: Nuclear
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM708-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM708-10M AX708-YCD, AX708-50D
Concentrated:	MU708-UC, MU708-5UC MU708-1UC
Recommended Positive Control:	FG-708M
Recommended Barrier Control:	FB-708M

Anti-Bcl-6 is a transcriptional regulator gene which codes for a 706 amino acid nuclear zinc finger protein. This antibody reacts with Bcl-6 gene product in follicular lymphomas, diffuse large B-cell lymphomas, Burkitt's lymphomas and in nodular lymphocyte predominant Hodgkin's disease. The antibody gives a strong nuclear labeling of Bcl-6 protein in follicular lymphomas, diffuse large B-cell lymphomas, Burkitt's lymphomas and nodular, lymphocyte predominant Hodgkin's disease. Bcl-6 is not expressed in B-CLL, hairy cell leukemia, mantle and marginal-zone derived lymphomas.

BCR-ABL



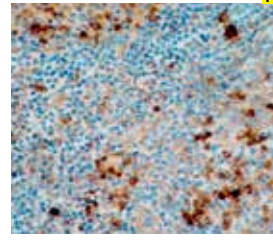
Liver cancer stained with Anti-BCR-ABL using DAB chromogen

Clone: 7C6
 Isotype: IgG
 Source: Mouse
 Immunogen: Bcr686 thyroglobulin conjugate corresponding to human BCR sequence 686-696 (SSINEITPRRQS)
 Specificity: Human and mouse BCR-ABL
 Localization: Nucleus
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM903-5M (ASR)
Ready-to-Use (Automated): i6000™ Xmatrix®	AM903-10M (RUO) AX903-YCD, AX903-50D (RUO)
Concentrated:	MU903-UC, MU903-5UC MU903-1UC (ASR)
Recommended Positive Control:	FG-903M
Recommended Barrier Control:	FB-903M

Translocation between chromosomes 9 and 22 lead to the formation of the Philadelphia chromosome which contain the BCR-ABL fusion gene found in most patients with Chronic Myeloid Leukemia (CML) and some patients with Acute Lymphoblastic leukemia (ALL) or Acute Myelogenous Leukemia (AML). The BCR-ABL oncoprotein which exhibits constitutively activated tyrosine kinase function is responsible for the pathogenesis of CML. BCR-ABL aberrantly activates multiple signal pathways involving leukemic cell proliferation and survival. Besides GRB2 coupled RAS-MAPK and PI3K/AKT signal pathways, BCR-ABL also activates STAT5 and CRKL signal molecules. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

Bcl-x



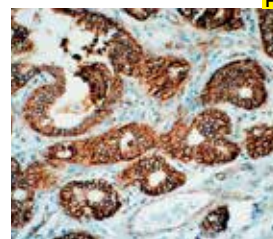
Tonsil tissue stained with anti-Human Bcl-x using DAB chromogen

Clone: EP94
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in human Bcl-x protein
 Specificity: Human Bcl-x
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN819-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AN819-10M AY819-YCD, AY819-50D
Concentrated:	NU819-UC, NU819-5UC
Recommended Positive Control:	FG-819N
Recommended Barrier Control:	FB-819N

Bcl-X, or bcl-2-like 1 protein, a member of the bcl-2 protein family, inhibits cell death or apoptosis and functions as a regulator of apoptosis. Bcl-X has two isoforms: Bcl-XL (Long), a 241-amino acid protein; and Bcl-XS (Short), a 178-amino acid protein lacking a 63-amino acid domain that is well conserved among members of the bcl-2 family. Bcl-X is typically present in the cytosol in association with the mitochondrial membrane. Bcl-x is expressed in many types of cell including lymphocytes, neuronal cells, and epithelial cells. In tumors, a high level of Bcl-x has been found in Reed Sternberg cells in Hodgkin's disease. Overexpression of Bcl-x has been observed in primary central nervous system lymphomas that occur in immuno suppressed patients. In prostate cancer, Bcl-x expression is increased during tumor progression. Overexpression of Bcl-x in colon cancer has been linked to a poor prognosis.

Beta Catenin



Breast stained with anti-Human Beta Catenin using DAB chromogen

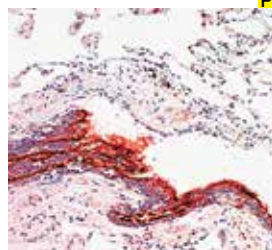
Clone: EP35
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic phospho-peptide corresponding to residues near N-terminus of human Beta Catenin protein
 Specificity: Human Beta Catenin
 Localization: Nuclear and cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN778-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AN778-10M AY778-YCD, AY778-50D
Concentrated:	NU778-UC, NU778-5UC
Recommended Positive Control:	FG-778N
Recommended Barrier Control:	FB-778N

Beta-Catenin is a key regulatory protein involved in cell adhesion and signal transduction through the Wnt pathway, and plays important roles in development, cellular proliferation, and differentiation. Mutations of this gene are commonly found in a variety of cancers: in primary hepatocellular carcinoma, colorectal cancer, ovarian carcinoma, breast cancer, lung cancer and glioblastoma. Mutations in the Beta-Catenin gene CTNNB1 leading to stabilization of Beta-Catenin in the cytoplasm and translocation to the nucleus have been implicated in various forms of tumor including familial adenomatous polyposis, fibromatosis, solitary fibrous tumors and endometrial carcinoma. A nuclear accumulation of Beta-Catenin in fibromatosis (desmoid tumor) in various locations including breast and mesentery is useful in the differentiation of this tumor from other fibroblast like lesions.



Beta-Tubulin



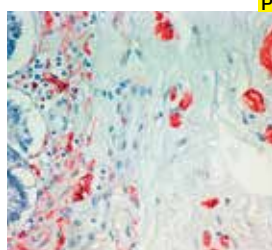
Lung tissue stained with Anti-Beta Tubulin using AEC chromogen

Clone: DM-1B
Isotype: IgG1 kappa
Source: Mouse
Immunogen: Beta-tubulin isolated from chick brain microtubules
Specificity: Beta-Tubulin
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM122-5M
Ready-to-Use (Automated):	
i6000™	AM122-10M
Xmatrix®	AX122-YCD, AX122-50D
Concentrated:	MU122-UC, MU122-5UC
Recommended Positive Control:	FG-122M
Recommended Barrier Control:	FB-122M

Microtubules, along with microfilaments and intermediate filaments, form the major part of the extensive cytoplasmic network known as the cytoskeleton. The thickest of these filaments are the 20-25 nm microtubules composed of tubulin and several additional microtubule-associated proteins (MAP). Tubulin is a heterodimer composed of α -tubulin and β -tubulin. Each subunit is a 55 kD acidic protein. Tubulin assembles into the microtubule system during interphase, then reassembles into the mitotic spindle during cell division. Immunoblot analysis shows that this antibody binds to the beta subunit of tubulin from cultured fibroblasts and chick brain tubulin. This antibody labels the cytoplasmic network of microtubules and mitotic spindles of cultured cells.

Beta-Tubulin II



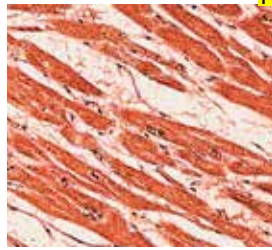
Colon stained with Anti-Beta Tubulin II using AEC chromogen

Clone: JDR3B8
Isotype: IgG2b
Source: Mouse
Immunogen: Cys-Glu-Gly-Glu-Glu-Asp-Glu-Ala-OH synthetic peptide conjugated with BSA.
Specificity: β -Tubulin II
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM176-5M
Ready-to-Use (Automated):	
i6000™	AM176-10M
Xmatrix®	AX176-YCD, AX176-50D
Concentrated:	MU176-UC, MU176-5UC
	MU176-1UC
Recommended Positive Control:	FG-176M
Recommended Barrier Control:	FB-176M

Microtubules play critical roles in a variety of cellular processes, such as mitosis, intracellular transport, ciliary and flagellar motility, and maintenance of cell shape. The structural subunit of microtubules, the 100 kD protein tubulin, is a heterodimer of two 50 kD subunits designated alpha and beta. Both alpha and beta occur as numerous isotypes which differ from each other in their amino acid sequences and tissue distribution. The majority of the differences among the isotypes cluster in the C-terminal, a region where the microtubule-associated proteins (MAPs) bind to tubulin. This antibody stains β -tubulin in cytoplasm of neuroepithelial cells and other positive cells.

Beta-Tubulin III



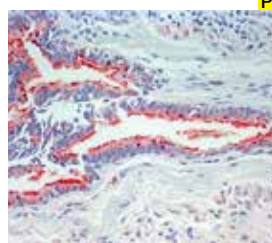
Heart muscle stained with Anti-Beta Tubulin III using DAB chromogen

Clone: SDL3D10
Isotype: IgG2b
Source: Mouse
Immunogen: Cys-Glu-Ser-Glu-Ser-Glu-Gln-Gly-Pro-Lys-OH synthetic peptide conjugated with BSA.
Specificity: β -Tubulin III
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM177-5M
Ready-to-Use (Automated):	
i6000™	AM177-10M
Xmatrix®	AX177-YCD, AX177-50D
Concentrated:	MU177-UC, MU177-5UC
	MU177-1UC
Recommended Positive Control:	FG-177M
Recommended Barrier Control:	FB-177M

Microtubules play critical roles in a variety of cellular processes, such as mitosis, intracellular transport, ciliary and flagellar motility, and maintenance of cell shape. The structural subunit of microtubules, the 100 kD protein tubulin, is a heterodimer of two 50 kD subunits designated alpha and beta. Both alpha and beta occur as numerous isotypes which differ from each other in their amino acid sequences and tissue distribution. The majority of the differences among the isotypes cluster in the C-terminal, a region where the microtubule-associated proteins (MAPs) bind to tubulin. This antibody stains beta tubulin in cytoplasm of positive cells.

Beta-Tubulin IV



Lung stained with Anti-Beta Tubulin IV using AEC chromogen

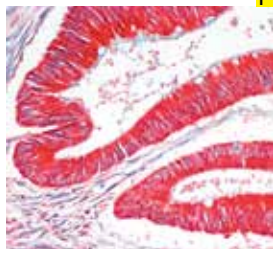
Clone: ONS1A6
Isotype: IgG1
Source: Mouse
Immunogen: Cys-Glu-Ala-Glu-Glu-Glu-Val-Ala-OH synthetic peptide conjugated with BSA 1
Specificity: β -Tubulin IV
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM178-5M
Ready-to-Use (Automated):	
i6000™	AM178-10M
Xmatrix®	AX178-YCD, AX178-50D
Concentrated:	MU178-UC, MU178-5UC
	MU178-1UC
Recommended Positive Control:	FG-178M
Recommended Barrier Control:	FB-178M

Microtubules play critical roles in a variety of cellular processes, such as mitosis, intracellular transport, ciliary and flagellar motility, and maintenance of cell shape. In the structural subunit of microtubules, the 100 kD protein tubulin, is a heterodimer of two 50 kD subunits designated alpha and beta. Both alpha and beta occur as numerous isotypes which differ from each other in their amino acid sequences and tissue distribution. The majority of the differences among the isotypes cluster in the C-terminal, a region where the microtubule-associated proteins (MAPs) bind to tubulin. This antibody stains β -tubulin in cytoplasm of positive cells.



bFGF (Basic Fibroblast Growth Factor)



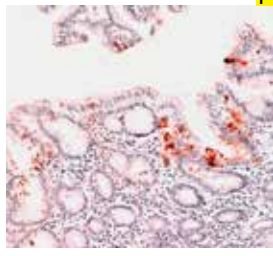
Adenocarcinoma stained with Anti-bFGF using AEC chromogen

P
 Clone: bFGF88
 Isotype: IgG 2b
 Source: Mouse
 Immunogen: A unique synthetic peptide of bFGF coupled to keyhole limpet hemocyanin
 Specificity: bFGF
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM359-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM359-10M AX359-YCD, AX359-50D
Recommended Positive Control:	FG-359M
Recommended Barrier Control:	FB-359M

bFGF is a pro-angiogenic cytokine which is present in diverse tissues. It is known to function as an autocrine mediator of mitogenesis of endothelial cells in vivo, resulting in angiogenesis. It also increases fibroblast production of plasminogen activator and collagenase. bFGF is a heparin binding cytokine that is found inside cells and in extracellular stores bound to heparin or heparin sulfate proteoglycans. bFGF may be released to mediate tissue repair since expression is known to be high in mast cells responding to injury. The monoclonal antibody to bFGF can be used for the study of myometrial smooth muscle cells, uterine leiomyomas, cardiac myocytes, arterial endothelium, gastric carcinoma, and invasive or metastatic melanoma. This antibody stains bFGF in cytoplasm of many diverse cell types.

Blood Group Antigen Lewis A



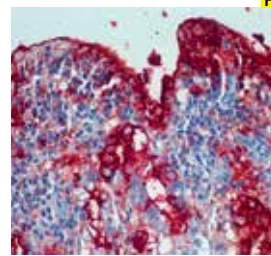
Stomach tissue stained with Anti-Blood group antigen Lewis A using AEC chromogen

P
 Clone: 7LE
 Isotype: IgG1
 Source: Mouse
 Immunogen: Mucin isolated from ovarian cyst fluid
 Specificity: Blood Group Antigen Lewis A
 Localization: Cytoplasm and Membrane
 Pre-treatment: -
 Manual/i6000: None
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM303-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM303-10M AX303-YCD, AX303-50D
Concentrated:	MU303-UC, MU303-5UC
Recommended Positive Control:	FG-303M
Recommended Barrier Control:	FB-303M

Lewis blood group antigens are carbohydrate moieties structurally integrated in mucous secretions. Lewis antigen system alterations have been described in gastric carcinoma and associated lesions. Enhanced expression of Lewis A antigen has been found in malignant transformation of gastric tissues. A panel of antibodies to Lewis antigens, including Lewis A, Lewis B and sialylated Lewis A, is useful in the immunopathological analysis of gastric cancers. Clone 7LE detects Lewis A antigen in cultured cells and tissue sections by immunohistochemistry and reacts with the immunogen in ELISA assays. This antibody stains blood group antigen Lewis A.

Blood Group Antigen Lewis B



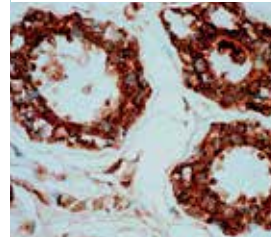
Intestine stained with Anti-Blood group Lewis B antibody using AEC chromogen

P
 Clone: 2-25LE
 Isotype: IgG1
 Source: Mouse
 Immunogen: Mucin isolated from ovarian cyst fluid
 Specificity: Blood Group Antigen Lewis B
 Localization: Cytoplasm and Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM304-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM304-10M AX304-YCD, AX304-50D
Concentrated:	MU304-UC, MU304-5UC
Recommended Positive Control:	FG-304M
Recommended Barrier Control:	FB-304M

Lewis blood group antigens are carbohydrate moieties structurally integrated in mucous secretions. Lewis antigen system alterations have been described in gastric carcinoma and associated lesions. Anomalous expression of Lewis B antigen has been found in some non-secretory gastric carcinomas and colorectal cancers. This antibody will stain Lewis B antigen in formalin-fixed, paraffin-embedded tissues. A panel of antibodies to Lewis antigens, including Lewis A, Lewis B and sialylated Lewis A, is useful in the immunopathological analysis of gastric cancers. Monoclonal antibody 2-25LE detects Lewis B antigen in cultured cells and tissue sections using immunohistochemistry and will react with the immunogen in ELISA assays. This antibody stains blood group antigen Lewis B.

BRCA1 Protein



Anti-BRCA1 positivity in recurrent tumor using DAB chromogen

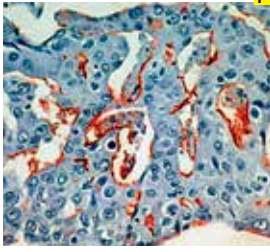
P
 Clone: Polyclonal
 Source: Rabbit
 Immunogen: A synthetic peptide encompassing a unique epitope within the carboxyl terminal domain of human BRCA1 coupled to Keyhole Limpet Hemocyanin.
 Specificity: BRCA1
 Localization: Nucleus and Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR345-5R
Ready-to-Use (Automated): i6000™ Xmatrx®	AR345-10R AW345-YCD, AW345-50D
Concentrated:	PU345-UP, PU345-5UP
Recommended Positive Control:	FG-345P
Recommended Barrier Control:	FB-345P

The BRCA1 gene was discovered as a region on chromosome 17q21 that has a high frequency of mutation in families predisposed to breast cancer. Specific mutations and variability in expression have been identified and characterized, including the founder mutation 185delAG in Ashkenazi Jewish families. BRCA1 functions as a tumor suppressor by mechanisms not yet understood. It has recently been suggested that BRCA1 might induce apoptosis similar to the gatekeeper function of the p53 tumor suppressor. This antibody reacts with an epitope mapping near the carboxyl terminus of the normal (non-mutant) BRCA1 gene product.



Breast Cancer Antigen BCA-225



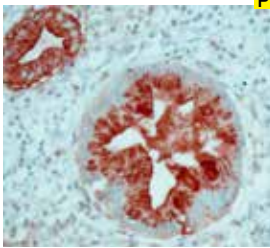
Breast carcinoma stained with Anti-BCA-225 using AEC chromogen

Clone: CU18
 Isotype: IgG1
 Source: Mouse
 Immunogen: RNA virus-like particles from T47D breast carcinoma cell line (VR).
 Specificity: Breast carcinoma Associated Antigen (BCA-225)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM135-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM135-10M
Xmatrix [®]	AX135-YCD, AX135-50D
Recommended Positive Control:	FG-135M
Recommended Barrier Control:	FB-135M

This antibody recognizes a 225-250 kD glycoprotein found in most human breast carcinomas and a few other tissues. CU18 does not stain lactating mammary gland.

CA19-9



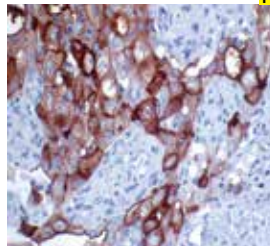
Colon stained with Anti-CA19-9 using DAB chromogen

Clone: C241:5:1:4
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human colorectal adenocarcinoma cell line COLO205
 Specificity: CA19-9 protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM424-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM424-10M
Xmatrix [®]	AX424-YCD, AX424-50D
Concentrated:	MU424-UC, MU424-5UC
Recommended Positive Control:	FG-424M
Recommended Barrier Control:	FB-424M

Carcinoma Antigen 19-9 (CA19-9) is a carbohydrate antigen that reacts specifically with Sialyl Lewis-x containing glycolipids and has been isolated and characterized as the oligosaccharide sialylated lacto-N-fucopentose II antigen. This monoclonal antibody is directed against the CA19-9 antigen, which is expressed in pancreatic carcinomas, and hepatobiliary carcinomas, the tumor cells of colorectal and gastric cancers. It can also be found in chronic pancreatitis and in healthy colonic mucosa of patients with colorectal cancer.

CA 125 (Ovarian Tumor Marker)



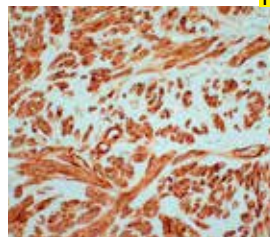
Ovarian carcinoma stained with Anti-Ovarian Tumor Marker (CA125) using DAB chromogen

Clone: Ov185:1
 Isotype: IgG1
 Source: Mouse
 Immunogen: A partially purified mucin fraction from a pool of cancer tissues from patients with epithelial ovarian cancer.
 Specificity: Repetitive protein determinant expressed in the protein core of CA125 human ovarian cancer antigen.
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM429-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM429-10M
Xmatrix [®]	AX429-YCD, AX429-50D
Concentrated:	MU429-UC, MU429-5UC
Recommended Positive Control:	FG-429M
Recommended Barrier Control:	FB-429M

Monoclonal antibody Ov185:1 reacts with repetitive protein determinant expressed in the protein core of the CA125 human ovarian cancer antigen. This marker is usually associated with ovarian epithelial malignancies. Immunohistochemistry with CA125 antibody in conjunction with other markers was found to be useful in tracing the origin of adenocarcinoma of unknown origin. This antibody stains membrane in ovarian cancer cells.

Caldesmon



Leiomyoma stained with anti-Human Caldesmon using DAB chromogen

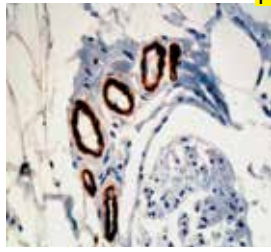
Clone: EP19
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic phosphopeptide corresponding to residues surrounding Ser789 of human Caldesmon protein
 Specificity: Human Caldesmon
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK /HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AN774-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN774-10M
Xmatrix [®]	AY774-YCD, AY774-50D
Concentrated:	NU774-UC, NU774-5UC
Recommended Positive Control:	FG-774N
Recommended Barrier Control:	FB-774N

Caldesmon is a regulatory protein found in smooth muscle and other tissues which interacts with actin, myosin, tropomyosin, and calmodulin. Also, it is useful in differentiation of smooth muscle from myofibroblast tumors, uterus leiomyoma from endometrial stroma tumor. Caldesmon is a marker for identification of epithelioid mesothelioma.



Caldesmon, High MW, Smooth Muscle



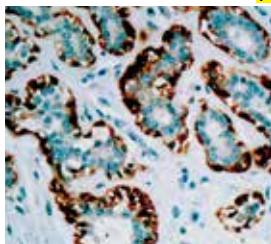
Smooth muscle stained with Anti-Caldesmon using DAB

Clone: h-CD
Isotype: IgG1
Source: Mouse
Immunogen: Crude human uterus caldesmon
Specificity: Caldesmon, high molecular weight
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM332-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM332-10M AX332-YCD, AX332-50D
Concentrated:	MU332-UC, MU332-5UC MU332-1UC
Recommended Positive Control:	FG-332M
Recommended Barrier Control:	FB-332M

Caldesmon is considered to be the marker for smooth muscle cell phenotype. Monoclonal antibody to caldesmon, high molecular weight (120-150kD), in combination with monoclonal antibodies to calponin and smooth muscle myosin heavy chains could be used to distinguish benign and in-situ lesions from invasive carcinomas. Anti-caldesmon antibody may be used to characterize the differentiation process of mammary myoepithelial cells in the developing mammary gland, investigate the nature of myoepithelial cells and study the development of human smooth muscle cells. This antibody stains caldesmon in cytoplasm of vascular, visceral smooth muscle and myoepithelial cells in normal and benign human mammary gland.

Calponin



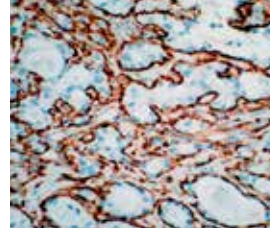
Myoepithelial cells in normal breast highlighted by Calponin stained using DAB chromogen

Clone: CALP
Isotype: IgG1
Source: Mouse
Immunogen: Crude human uterus extract
Specificity: Phosphorylated tyrosine
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM333-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM333-10M AX333-YCD, AX333-50D
Concentrated:	MU333-UC, MU333-5UC
Recommended Positive Control:	FG-333M
Recommended Barrier Control:	FB-333M

Calponin is a 33 kD thin filament-associated protein that plays a role in regulation of smooth muscle contractility by anchoring myosin to actin. Monoclonal antibody to Calponin in combination with clones SMMS-1(anti-myosin heavy chain antibody) and h-CD (anti-Caldesmon antibody) could be used to distinguish benign and in-situ lesions from invasive carcinomas. This antibody stains Calponin in cytoplasm of vascular and visceral smooth muscle cells, myoepithelial cells in normal and benign human mammary gland, and certain stromal myofibroblasts.

Calponin-1



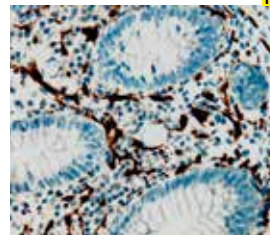
Pleomorphic adenoma stained with anti-Human Calponin-1 using DAB chromogen

Clone: EP63
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues near the C-terminus of human Calponin-1 protein.
Specificity: Human Calponin-1
Localization: -
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN821-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN821-10M AY821-YCD, AY821-50D
Concentrated:	NU821-UC, NU821-5UC NU821-1UC
Recommended Positive Control:	FG-821N
Recommended Barrier Control:	FB-821N

Calponin is a smooth muscle specific, actin-, tropomyosin- and calmodulin-binding protein thought to be involved in regulation of actomyosin as well as the regulation or modulation of contraction. Calponin antibody has been found to be useful as a marker for myoepithelial and basal lamina in differentiating microinvasive from in situ ductal carcinomas of the breast. Calponin antibody may also have applications in malignant myoepithelium and pleomorphic adenoma of salivary gland as well as a useful marker for fine needle aspirates of papillary breast lesions.

Calretinin



Appendix stained with Anti-calretinin using DAB chromogen

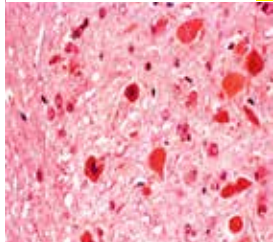
Clone: 2 E7
Isotype: IgG
Source: Mouse
Immunogen: Recombinant human calretinin
Specificity: Anti-human calretinin
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM583-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM583-10M AX583-YCD, AX583-50D
Concentrated:	MU583-UC, MU583-5UC
Recommended Positive Control:	FG-583M
Recommended Barrier Control:	FB-583M

Calretinin, also known as calbindin 2, is a calcium binding protein that belongs to the calbindin family. It is mainly expressed in the central and peripheral nervous systems and in many normal and pathological tissues. Calretinin can be found in different subsets of neurons and is considered as a valuable marker of neuronal subpopulations for anatomical and developmental studies. It has been implicated as a calcium sensor, and regulator of apoptosis. Calretinin is approved as a highly sensitive and specific marker for mesothelial cells and one of the best positive makers for differentiating epithelial malignant mesotheliomas.



Calretinin



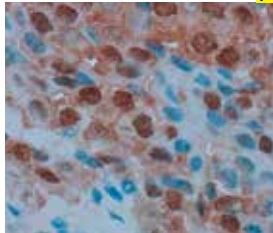
Calretinin positivity in brain neurons using AEC chromogen

P
 Clone: Polyclonal
 Isotype: N/A
 Source: Rabbit
 Immunogen: Recombinant human calretinin
 Specificity: Calretinin antigen
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR413-5R
Ready-to-Use (Automated): i6000™ Xmatrx®	AR413-10R AW413-YCD, AW413-50D
Concentrated:	PU413-UP, PU413-5UP
Recommended Positive Control:	FG-413P
Recommended Barrier Control:	FB-413P

Calretinin is approved as a highly sensitive and specific marker for mesothelial cells and one of the best positive markers for differentiating epithelial malignant mesotheliomas. This polyclonal antibody specifically recognizes calretinin in tissue originating from human, monkey, rat and mouse. It does not cross-react with other known calcium-binding proteins as determined by Western Blot analysis and by its distribution in the brain as determined by immunohistochemistry. This antibody stains calretinin antigen in cytoplasm of various neurons in normal brain and mesothelial cells.

Calretinin



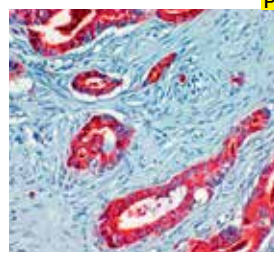
Mesothelioma tissue stained with anti-Calretinin using DAB chromogen

P
 Clone: SP13
 Isotype: IgG
 Source: Rabbit
 Immunogen: Recombinant full length mouse calretinin protein
 Specificity: Human Calretinin
 Localization: Cytoplasm and Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN747-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN747-10M AY747-YCD, AY747-50D
Concentrated:	NU747-UC, NU747-5UC NU747-1UC
Recommended Positive Control:	FG-747N
Recommended Barrier Control:	FB-747N

This antibody recognizes a protein of 31.5kDa, identified as Calretinin. Calretinin is an intracellular calcium-binding protein belonging to the troponin C superfamily characterized by a structural motif described as the EF-hand domain. It is abundantly expressed in central and peripheral neural tissues, particularly in the retina and in the neurons of the sensory pathways, and calretinin may play an important role in the survival of nerve cells during disturbances in calcium homeostasis. Calretinin is also expressed by both normal and neoplastic mesothelial cells, and it has been suggested as a useful marker for the identification of malignant mesotheliomas of the epithelial type and for the differentiation of these malignancies of lung adenocarcinoma.

Carcinoembryonic Antigen (CEA)



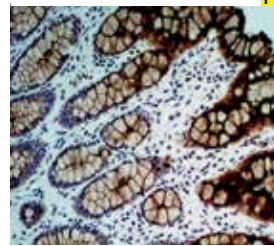
Colon carcinoma stained with Anti-CEA using AEC chromogen

P
 Clone: B01-94-11M-P
 Isotype: IgG 2b
 Source: Mouse
 Immunogen: Human carcinoembryonic antigen
 Specificity: Carcinoembryonic antigen (CEA)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM009-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM009-10M AX009-YCD, AX009-50D
Concentrated:	MU009-UC, MU009-5UC
Recommended Positive Control:	FG-009M
Recommended Barrier Control:	FG-009M

CEA consists of a heterogeneous family of related oncofetal 200 kD glycoproteins that is secreted into the glycocalyx surface of gastrointestinal cells. Usually CEA is demonstrated as a linear labeling of the apical poles of cells lining the glandular lumen and, occasionally, as weak staining near the apex of colonic epithelial cells. Pancreatic carcinomas, testicular tumor, gallbladder neoplasms and granular cell myoblastomas stain positive, whereas malignant tumors of brain, prostate, skin, lymphoreticular tissues, hepatocellular carcinomas, esophageal squamous cell carcinomas, and mesothelioma fail to stain for CEA. This antibody stains carcinoembryonic antigen in the cytoplasm of positive cells.

Carcinoembryonic Antigen (CEA)



Colon showing CEA positivity stained using DAB chromogen

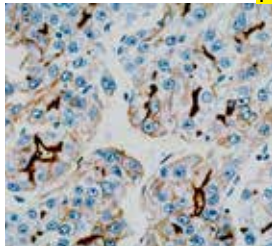
P
 Clone: CEA88
 Isotype: IgG1
 Source: Mouse
 Immunogen: Partially purified human CEA
 Specificity: Carcinoembryonic antigen (CEA)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM365-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM365-10M AX365-YCD, AX365-50D
Concentrated:	MU365-UC, MU365-5UC
Recommended Positive Control:	FG-365M
Recommended Barrier Control:	FB-365M

CEA is demonstrated as a linear labeling of the apical poles of cells lining the glandular lumen and, occasionally, as weak staining near the apex of colonic epithelial cells. CEA, however, should not be used as a marker of differentiation because many colon and lung tumors actually show increased staining with differentiation. Pancreatic carcinomas, testicular tumor, gallbladder neoplasms and granular cell myoblastomas stain positive, whereas malignant tumors of brain, prostate, skin, lymphoreticular tissues, hepatocellular carcinomas, oesophageal squamous cell carcinomas, and mesothelioma fail to stain for CEA.



Carcinoembryonic Antigen (CEA)



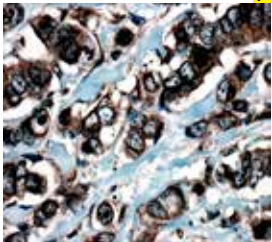
CEA expression in hepatocellular carcinoma stained using DAB chromogen

Clone: Polyclonal
Isotype: N/A
Source: Rabbit
Immunogen: CEA isolated from secondary colon carcinoma by salt precipitation, ion and gel chromatography
Specificity: Carcinoembryonic antigen (CEA)
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR009-5R
Ready-to-Use (Automated): i6000™ Xmatrx®	AR009-10R AW009-YCD, AW009-50D
Recommended Positive Control:	FG-009P
Recommended Barrier Control:	FG-009P

CEA consists of a heterogeneous family of related oncofetal 200 kD glycoproteins that is secreted into the glycocalyx surface of gastrointestinal cells. Usually CEA is demonstrated as a linear labeling of the apical poles of cells lining the glandular lumen and, occasionally, as weak staining near the apex of colonic epithelial cells, pancreatic carcinomas, testicular tumor, gallbladder neoplasms and granular cell myoblastomas stain positive, whereas malignant tumors of brain, prostate, skin, lymphoreticular tissues, hepatocellular carcinomas, esophageal squamous cell carcinomas, and mesothelioma fail to stain for CEA. This antibody stains carcinoembryonic antigen in the cytoplasm of the positive cells.

Catenin Delta 1 (p120)



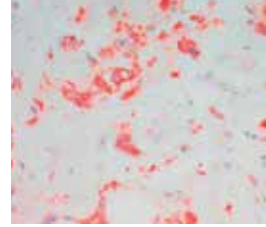
Breast Ca. stained with anti-Catenin delta 1 (p120) antibody using DAB chromogen

Clone: Polyclonal
Isotype: IgG
Source: Rabbit
Immunogen: Catenine delta
Specificity: Catenine delta
Localization: Membrane and cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AR706-5R
Ready-to-Use (Automated): i6000™ Xmatrx®	AR706-10R AW706-YCD, AW706-50D
Concentrated:	PU706-UP, PU706-5UP PU706-1UP
Recommended Positive Control:	FG-706P
Recommended Barrier Control:	FB-706P

Catenines are proteins that are linked to the cytoplasmic domain of transmembrane cadherins. P120 Catenin is a member of this Aemadillo gene family of junctional plaque proteins. Cytoplasmic accumulation of p120 catenine has been observed in lung cancer, pancreatic cancer, gastric cancer and colon cancers and is associated with poor prognosis in colon cancer patients. In breast lobular neoplasia, anti p120 Catenine shows a diffuse cytoplasmic immunostaining pattern, while breast ductal neoplasma retains the membrane immunostaining pattern. P120 catenine antibody is useful in differentiation of lobular carcinoma from ductal carcinoma of the breast and in identifying early lesions of lobular neoplasia.

Cathepsin D



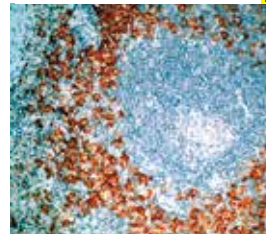
Breast carcinoma stained with Anti-Cathepsin D using AEC chromogen

Clone: C15
Isotype: IgG2b
Source: Mouse
Immunogen: Cathepsin D protein purified from human spleen
Specificity: Cathepsin D
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM467-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM467-10M AX467-YCD, AX467-50D
Concentrated:	MU467-UC, MU467-5UC
Recommended Positive Control:	FG-467M
Recommended Barrier Control:	FB-467M

Cathepsin D production and secretion appears to be induced by estrogen in estrogen-responsive tumor cells but is constitutively produced in estrogen-unresponsive tumor cells. Immunohistochemical localization of Cathepsin D in normal human tissues has shown a granular cytoplasmic staining pattern corresponding to intracellular lysosomes. Among normal tissues studied, highest concentrations of Cathepsin D were found in sweat glands and liver with some staining of sebaceous glands.

CD1a



Lymph node stained with Anti-CD1a using DAB as Chromogen

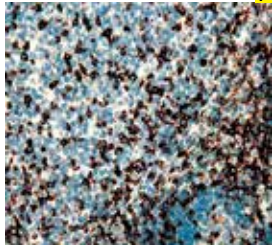
Clone: O10
Isotype: IgG
Source: Mouse
Immunogen: Human CD1a
Specificity: CD1a
Localization: Membrane/Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM490-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM490-10M AX490-YCD, AX490-50D
Concentrated:	MU490-UC, MU490-5UC MU490-1UC
Recommended Positive Control:	FG-490M
Recommended Barrier Control:	FB-490M

CD1 is expressed on cortical thymocytes, Langerhans cells, and dendritic cells. It is absent on mature peripheral blood T cells but intracytoplasmic expression is detected on activated T lymphocytes. At least five CD1 genes (CD1a, b, c, d, and e) are identified. CD1 proteins have been demonstrated to restrict T-cell response to non-peptide lipid and lycolipid antigens and play a role in non-classical antigen presentation. Ab-5 detects cortical thymocytes, Langerhans cells in epidermis, dendritic cells of dermis and Langerhans cells of mucosa of tonsil. It may also detect small focal groups of lymphocytes outside the germinal centers of tonsil indicating a cross-reaction with CD1b. This antibody is useful in the characterization of leukemias and lymphomas.



CD2



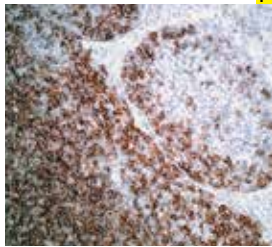
Tonsil stained with Anti-CD2 using DAB chromogen

Clone: AB75
Isotype: IgG1 kappa
Source: Mouse
Immunogen: Recombinant fusion protein corresponding to the external domain of the CD2 molecule.
Specificity: CD2 antigen (LFA-2)
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM438-5M
Ready-to-Use (Automated):	AM438-10M
i6000™	AM438-10M
Xmatrix®	AX438-YCD, AX438-50D
Concentrated:	MU438-UC, MU438-5UC
	MU438-1UC
Recommended Positive Control:	FG-438M
Recommended Barrier Control:	FB-438M

The CD2 antigen, also known as lymphocyte function antigen2 (LFA2), is a single chain type I transmembrane molecule of about 50 kD and consists of 351 amino acids. It plays a critical role in activation of T cells. It binds to CD58 on antigen presenting cells and induces tyrosine phosphorylation of other molecules involved in T cell activation. It also plays a regulatory role in T-cell or NK-cell mediated cytolysis. CD2 antigen is expressed on a majority of T cells in peripheral lymphoid tissue, NK cells, cortical thymocytes and most malignant cells of T cell origin. This antibody stains the membrane of positive T cells.

CD3 (T Cell)



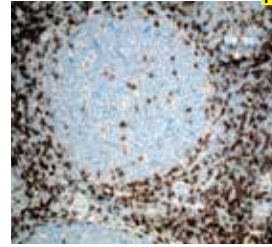
Frozen tonsil stained with Anti-CD3 using DAB chromogen

Clone: UCHT1
Isotype: IgG1 Kappa
Source: Mouse
Immunogen: Human infant thymocytes and peripheral lymphocytes from a patient with Sezary cell leukemia
Specificity: CD3
Localization: Membrane
Pre-treatment: None

Ready-to-Use (Manual):	AM258-5M
Ready-to-Use (Automated):	AM258-10M
i6000™	AM258-10M
Xmatrix®	AX258-YCD, AX258-50D
Concentrated:	MU258-UC, MU258-5UC
Recommended Positive Control:	FG-258M
Recommended Barrier Control:	FB-258M

CD3 is a lineage-specific "pan T-cell" surface antigen composed of five different polypeptide chains with molecular masses ranging from 16 to 28 kD. Antibody UCHT1 reacts with the 20 kD epsilon chain of the CD3 molecule. CD3 is normally present on mature thymocytes, resting and activated peripheral T lymphocytes (both inducer and suppressor/cytotoxic), and on some natural killer cells. It is absent in peripheral B lymphocytes, monocytes, granulocytes, and platelets. This antibody stains CD3 antigen in the cytoplasm of immature and common thymocytes and on the surface of mature thymocytes in frozen tissue sections.

CD3 (T Cell)



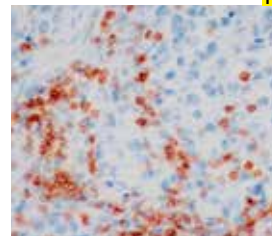
Tonsil stained with Anti-CD3 using DAB chromogen

Clone: PS1
Isotype: IgG 2a
Source: Mouse
Immunogen: Fusion protein to the epsilon chain of CD3
Specificity: CD3 antigen
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM322-5M
Ready-to-Use (Automated):	AM322-10M
i6000™	AM322-10M
Xmatrix®	AX322-YCD, AX322-50D
Concentrated:	MU322-UC, MU322-5UC
Recommended Positive Control:	FG-322M
Recommended Barrier Control:	FB-322M

Human CD3 complex is associated with the T cell receptor (TcR) at the cell surface. Expression of CD3 antigen is generally restricted to the T-cell lineage, but weak expression might also occur in Purkinje cells in the brain, in macrophages, and in Reed-Sternberg cells in Hodgkin's lymphoma. The CD3 antigen is expressed early in the maturation of T cells. Monoclonal antibody PS1 reacts with the non-glycosylated epsilon chain of CD3. The antibody stains CD3 antigen in the membrane of the positive cells.

CD3



Lymphoma stained with anti-Human CD3 using DAB chromogen

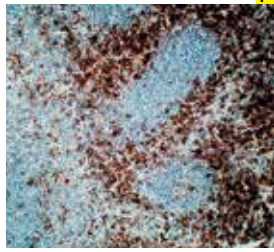
Clone: EP41
Isotype: IgG
Source: Rabbit
Immunogen: Human CD3, a complex of proteins that associates directly with the T-Cell antigen receptor (TCR)
Specificity: Human CD3
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN846-5M
Ready-to-Use (Automated):	AN846-10M
i6000™	AN846-10M
Xmatrix®	AY846-YCD, AY846-50D
Concentrated:	NU846-UC, NU846-5UC
	NU846-1UC
Recommended Positive Control:	FG-846N
Recommended Barrier Control:	FB-846N

CD3 (Cluster of Differentiation 3) is a complex of proteins that associates directly with the T cell antigen receptor (TCR). CD3 is composed of five invariant polypeptide chains that associate to form three dimers. The five invariant chains of CD3 are labeled gamma, delta, epsilon, zeta, and eta. The CD3 is involved in T cell development and survival. It is expressed on T cells in Thymus, peripheral lymphoid tissue, blood and bone marrow. CD3 is a commonly used marker for identification of T cell and T cell derived malignancies. This CD3 antibody has been validated by the 9th International Conference on Human Leukocyte Differentiation Antigens (HLDA9).



CD4



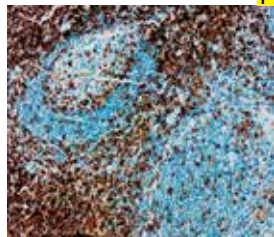
Tonsil stained with Anti-CD4 using DAB chromogen

P
 Clone: 4B12
 Isotype: IgG1
 Source: Mouse
 Immunogen: Prokaryotic recombinant protein corresponding to the external domain of the CD4 molecule
 Specificity: CD4 protein
 Localization: Membrane
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM421-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM421-10M
Xmatrix [®]	AX421-YCD, AX421-50D
Concentrated:	MU421-UC, MU421-5UC
Recommended Positive Control:	FG-421M
Recommended Barrier Control:	FB-421M

CD4 is a 55-60 kD cell-surface glycoprotein, which participates in the molecular complexes involved in both T cell development and its antigen recognizing activity, by binding to the nonpolymorphic region of class II MHC. CD4 is considered as a stage marker of T cell development in the thymus, for it is expressed on the cell surface in a stage specific manner, during T cell development. This antibody reacts on a low level with human monocytes and macrophages but does not react with B-cells, granulocytes and thrombocytes. This antibody stains CD4 antigen on the membrane of positive T lymphocytes.

CD4



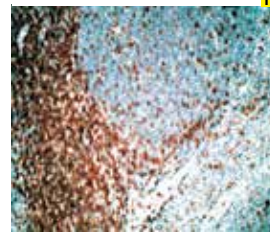
Tonsil stained with anti-CD4 using DAB chromogen

P
 Clone: EP204
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD4 protein
 Specificity: CD4 protein
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN722-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN722-10M
Xmatrix [®]	AY722-YCD, AY722-50D
Concentrated:	NU722-UC, NU722-5UC
Recommended Positive Control:	FG-722N
Recommended Barrier Control:	FB-722N

CD4 (cluster of differentiation 4) is a glycoprotein found on the surface of immune cells such as T helper cells, monocytes, macrophages and dendritic cells. CD4 is expressed in the majority of T-cell lymphomas, including mycosis fungoides. Lymphomas are CD4 positive with the exception of aggressive NK-cell leukemia and extranodal NK/T-cell lymphoma. CD4 plays an important role in the classification of lymphocytes in inflammatory lesions and malignant lymphomas.

CD5



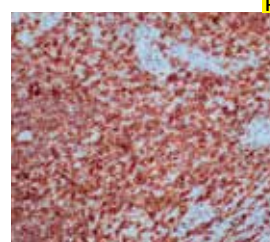
Tonsil tissue stained with Anti-CD5 using DAB chromogen

P
 Clone: 4C7
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Recombinant protein corresponding to the external domain of the CD5 molecule.
 Specificity: Human CD5 antigen, 67 kD antigen
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM430-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM430-10M
Xmatrix [®]	AX430-YCD, AX430-50D
Concentrated:	MU430-UC, MU430-5UC
Recommended Positive Control:	FG-430M
Recommended Barrier Control:	FB-430M

The CD5 antigen, also known as T1, is a 67 kD single chain glycoprotein expressed on normal and malignant T cells and on chronic lymphocytic leukemia cells. It is found in high density on medullary thymocytes and in low density on cortical thymocytes.

CD5



Tonsil tissue stained with anti-Human CD5 using DAB chromogen

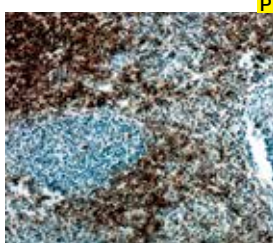
P
 Clone: EP77
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in human CD5 protein.
 Specificity: Human CD5
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN824-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN824-10M
Xmatrix [®]	AY824-YCD, AY824-50D
Concentrated:	NU824-UC, NU824-5UC
Recommended Positive Control:	FG-824N
Recommended Barrier Control:	FB-824N

CD5 antibody is a T-cell associated marker that is also expressed by two B-cell neoplasms: lymphocytic leukemia and mantle cell lymphoma. CD5 antigen is expressed in 95% of thymocytes and 72% of peripheral blood lymphocytes. In tumors, CD5 is expressed on T-cell malignancies, B cell chronic lymphocytic leukemia (CLL)/small lymphocytic lymphoma (SLL), and mantle-cell lymphoma. It is a useful diagnostic tool for these tumors. In addition, anti-CD5 is helpful in diagnosis of thymic carcinoma (CD5 positive).



CD7



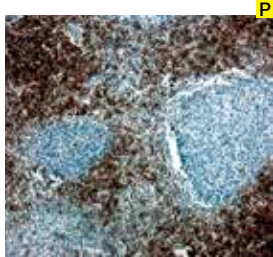
Tonsil stained with anti-Human CD7 using DAB chromogen

Clone: SP94
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to the internal region of human CD7 protein
 Specificity: Human CD7
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN761-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN761-10M
Xmatrix [®]	AY761-YCD, AY761-50D
Concentrated:	NU761-UC, NU761-5UC
	NU761-1UC
Recommended Positive Control:	FG-761N
Recommended Barrier Control:	FB-761N

Anti-CD7 (SP94) Rabbit Monoclonal Primary Antibody (anti-CD7 (SP94) is directed against the 40kD transmembrane glycoprotein, CD7 is expressed on the majority of immature and mature T-lymphocytes, and T cell leukemia. It is also found on natural killer cells, a small subpopulation of normal B cells and on malignant B cells. Anti-CD7 (SP94) may be used to aid in the identification of T cell lymphomas. This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. Cross-linking surface CD7 positively modulates T cell and NK cell activity as measured by calcium fluxes, expression of adhesion molecules, cytokine secretion and proliferation. CD7 associates directly with phosphoinositol 3'-kinase. CD7 ligation induces production of D-3 phosphoinositides and tyrosine phosphorylation.

CD7



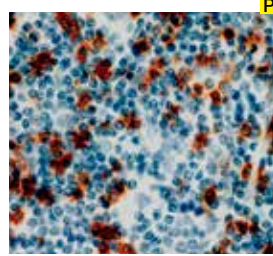
Tonsil stained with Anti-CD7 using DAB Chromogen

Clone: LP15
 Isotype: IgG2b
 Source: Mouse
 Immunogen: CD7
 Specificity: CD7
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM702-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM702-10M
Xmatrix [®]	AX702-YCD, AX702-50D
Concentrated:	MU702-UC, MU702-5UC
Recommended Positive Control:	FG-702M
Recommended Barrier Control:	FB-702M

The CD7 molecule is membrane-bound glycoprotein of 40kD and is the earliest T Cell specific antigen to be expressed in lymphocytes. CD7 antigen is also the only early marker to persist throughout differentiation. The function and role of the CD7 molecule has not yet been fully identified although the activation of T cells with gamma/ delta receptors has been proposed based on mAb- activation. CD7 antigen is reported to be found on a majority of peripheral blood T cells, most natural killer cells and thymocytes.

CD8



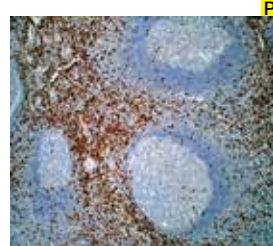
Tonsil tissue stained with Anti-CD8 using DAB chromogen

Clone: 1A5
 Isotype: IgG1
 Source: Mouse
 Immunogen: Prokaryotic recombinant protein corresponding to the external domain of the CD8 molecule.
 Specificity: CD8 protein
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM422-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM422-10M
Xmatrix [®]	AX422-YCD, AX422-50D
Concentrated:	MU422-UC, MU422-5UC
Recommended Positive Control:	FG-422M
Recommended Barrier Control:	FB-422M

The CD8 antigen is composed of two chains and has a molecular weight of 32kD. This antibody identified cytotoxic/suppressor T cells that interact with binding to the nonpolymorphic region of class I MHC. CD8 is a stage marker of T cell development in the thymus, and is expressed on mature peripheral T cells, most cytotoxic T cells, CD4/CD8+ thymocytes, NK cells and cortical thymocytes. This monoclonal antibody is directed against the CD8 antigen, which is expressed on human T lymphocytes. It does not react with B-cells, granulocytes and thrombocytes. This antibody stains CD8 antigen on the membrane of positive T lymphocytes.

CD8



Tonsil stained with anti-CD8 using DAB chromogen

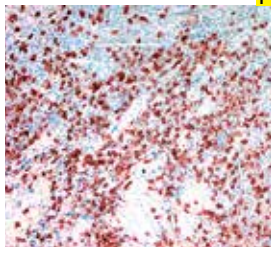
Clone: SP16
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to the C-terminus of alpha chain of the human CD8 molecule
 Specificity: CD8
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN740-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN740-10M
Xmatrix [®]	AY740-YCD, AY740-50D
Concentrated:	NU740-UC, NU740-5UC
Recommended Positive Control:	FG-740N
Recommended Barrier Control:	FB-740N

CD8 molecule consists of two chains, termed α and β chain, which are expressed as a disulphide-linked α/β heterdimer or as an α/α homodimer on T cell subset (25-35% of mature peripheral T-cells), thymocytes (70-80%), and NK cells(30%, which are also CD3 negative).. The majority of CD8+ T cells express CD8 as α/β heterodimer. CD8 functions as a co-receptor in concert with TCR for binding the MHC class I/peptide complex. The HIV-2 envelope glycoprotein binds CD8 α chain (but not β chain).



CD8 (T cell, Suppressor/Cytotoxic)



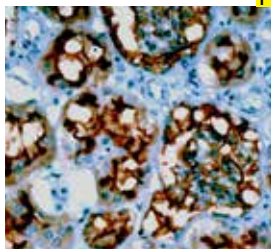
Clone: T8
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Human thymocytes
 Specificity: CD8 antigen
 Localization: Membrane
 Pre-treatment: None

Frozen tonsil stained with Anti-CD8 using AEC chromogen

Ready-to-Use (Manual):	AM261-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM261-10M
Xmatrix [®]	AX261-YCD, AX261-50D
Concentrated:	MU261-UC, MU261-5UC
Recommended Positive Control:	FG-261M
Recommended Barrier Control:	FB-261M

The CD8 antigen, also known as T8 or Leu2 or Lyt2 or T cell co-receptor, is a dimer with a molecular mass of 32 kD. The T8 antigen is expressed by the suppressor/cytotoxic subset of T lymphocytes which comprise most of the cortical thymocytes and approximately 30% of peripheral blood T cells. Studies have demonstrated that increased levels of T8+ cells are associated with viral infections such as hepatitis B, Epstein-Barr, and cytomegalovirus. This antibody may be used in the study of cell-mediated cytotoxicity and that of immunoregulation and T-lymphocyte-mediated suppression. This antibody stains CD8 (T8) antigen suppressor/cytotoxic T lymphocytes and majority of thymocytes (approximately 80%) in frozen tissue sections.

CD10/CALLA



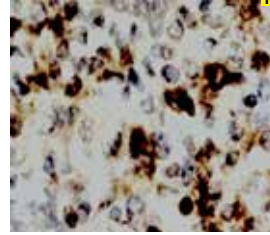
Clone: 56C6
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human CD10
 Specificity: CD10
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/*i6000*: HK547-XAK
 Xmatrix: HX032-YCD

CD10 expression in kidney stained using DAB chromogen

Ready-to-Use (Manual):	AM451-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM451-10M
Xmatrix [®]	AX451-YCD, AX451-50D
Concentrated:	MU451-UC, MU451-5UC
Recommended Positive Control:	FG-451M
Recommended Barrier Control:	FB-451M

CD10, a 100KD glycoprotein, also known as Common Acute Lymphocytic Leukemia Antigen (CALLA), is a cell surface enzyme with neutral metalloendopeptidase activity which inactivates a variety of biologically active peptides. CD10 is expressed on the cells of lymphoblastic, Burkitt's and follicular germinal center lymphomas, and chronic myelogenous leukemia (CML). It is also expressed on the surface of normal early lymphoid progenitor cells, immature B cells within bone marrow and germinal center B cells within lymphoid tissue. CD10 is also present on breast myoepithelial cells, with especially high expression on the brush border of kidney and gut epithelial cells.

CD11b (C3bi receptor)



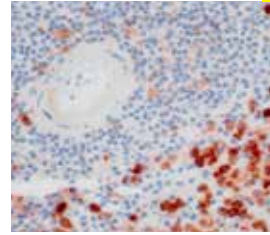
Clone: M01
 Isotype: IgM kappa
 Source: Mouse
 Immunogen: Human adherent mononuclear cells
 Specificity: Myeloid antigen M01
 Localization: Membrane
 Pre-treatment: None

Frozen tonsil mucosa stained with Anti-CD11b using DAB chromogen

Ready-to-Use (Manual):	AM270-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM270-10M
Xmatrix [®]	AX270-YCD, AX270-50D
Recommended Positive Control:	FG-270M
Recommended Barrier Control:	FB-270M

CD11b also known as M01, a human myeloid antigen, is a noncovalently associated, two-subunit glycoprotein of 94 and 155 kD. This antibody can be used as a neutrophil marker. It identifies the C3bi receptor and is expressed by peripheral blood monocytes, certain macrophages, granulocytic cells (from myelocytes to mature neutrophils) and a subset of null cells in frozen tissue sections. Histiocytic cells in the spleen and lymph nodes also express this antigen.

CD11b/ITAM



Clone: EP45
 Isotype: IgG
 Source: Rabbit
 Immunogen: Human CD11b/IT protein
 Specificity: Human CD11b/IT
 Localization: -
 Pre-treatment: EZ-AR2 elegance
 Manual/*i6000*: HK547-XAK
 Xmatrix: HX032-YCD

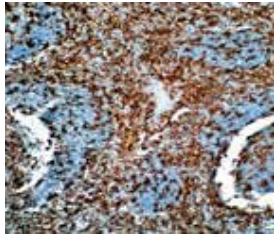
Spleen stained with anti-Human CD11b/ITAM using DAB chromogen

Ready-to-Use (Manual):	AN851-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN851-10M
Xmatrix [®]	AY851-YCD, AY851-50D
Concentrated:	NU851-UC, NU851-5UC
	NU851-1UC
Recommended Positive Control:	FG-851N
Recommended Barrier Control:	FB-851N

CD11b, also known as ITAM, Integrin alpha-M or MAC-1 alpha subunit or CR3 alpha chain belongs to the integrin alpha chain family; it is predominately present in human myeloid cells, NK1 cells, monocytes, granulocytes and follicular dendritic cells. The alpha subunit of ITAM/beta-2 complex (CD11b/CD18, Mac-1), is a receptor for fibrinogen, factor X, and ICAM1. ITAM/beta-2 is implicated in adhesive interactions of monocytes, macrophages, and granulocytes. CD11b has been used as a common myeloid marker. CD11b is expressed in about 50% of acute myeloid leukemia (AML). In combination with CD117, CD11b is helpful in differentiating acute promyelocytic leukemia (CD11b negative) from recovering benign myeloid proliferation (CD11b positive, CD117 negative). In acute promyelocytic leukemia patients treated with all-trans retinoic acid or Arsenic trioxide (As2O3), CD11b is a marker for differentiating the induction of leukemia cells. CD11b is also expressed on microglia cells and involved in the development of neurodegenerative diseases.



CD11c



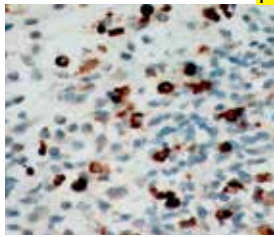
Tonsil stained with anti-Human CD11c/ITGAX using DAB chromogen

P
 Clone: EP157
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD11c/ITGA Xprotein
 Specificity: Human CD11c
 Localization: -
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN822-5M
Ready-to-Use (Automated):	
i6000™	AN822-10M
Xmatrx®	AY822-YCD, AY822-50D
Concentrated:	NU822-UC, NU822-5UC
	NU822-1UC
Recommended Positive Control:	FG-822N
Recommended Barrier Control:	FB-822N

CD11c (ITGAX) is a member of the leukocyte integrin family of adhesion proteins. CD11c is expressed prominently on the plasma membranes of monocytes, tissue macrophages, NK cells, and most dendritic cells (DCs). A lower level of expression is also observed on neutrophils as a result of its high level of expression on most DCs. An antibody to CD11c may aid in identification of lesions with histiocytic origin. It may also be used as a marker for hairy cell leukemia in paraffin embedded tissues.

CD13



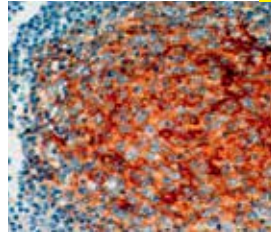
Lymphoma stained with anti-Human CD13 using DAB chromogen

P
 Clone: EP117
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in human CD13protein
 Specificity: Human CD13
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN832-5M
Ready-to-Use (Automated):	
i6000™	AN832-10M
Xmatrx®	AY832-YCD, AY832-50D
Concentrated:	NU832-UC, NU832-5UC
	NU832-1UC
Recommended Positive Control:	FG-832N
Recommended Barrier Control:	FB-832N

CD13 antigen, also known as aminopeptidase N, is a member of the type II integral membrane metalloproteases which also includes the leukocyte antigens CD10, CD26, CD73 and BP-1. CD13 antigen is a receptor for the coronaviruses which cause respiratory disease in humans and several animal species. CD13 antigen is reported to be expressed on granulocytes, monocytes and their precursors, most acute myeloid leukemias and a smaller proportion of acute lymphoid leukemias. Nonhematopoietic cells which express CD13 antigen include epithelial cells, renal proximal tubules, intestinal brush border, endothelial cells, fibroblasts, brain cells, bone marrow, osteoclasts and cells lining the bile canaliculi.

CD14



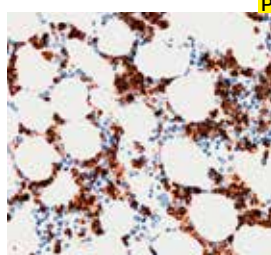
Tonsil stained with anti-Human CD14 using DAB chromogen

P
 Clone: EP128
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD14 protein
 Specificity: Human CD14
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN814-5M
Ready-to-Use (Automated):	
i6000™	AN814-10M
Xmatrx®	AY814-YCD, AY814-50D
Concentrated:	NU814-UC, NU814-5UC
	NU814-1UC
Recommended Positive Control:	FG-814N
Recommended Barrier Control:	FB-814N

CD14 is a surface protein preferentially expressed on monocytes/macrophages. It binds lipopolysaccharide binding protein and recently has been shown to bind apoptotic cells. CD14 is expressed by monocytes, dermal dendritic cells, and anti-CD14 is considered a monocyte marker. Anti-CD14 antibody labels Kupffer cells in liver sinusoids. In lymphoid tissues, dendritic cells are distinctly stained. Most other normal tissues are negative. This antibody labels monocyte macrophages and Langerhans cells in Langerhans cell histiocytosis. Tumor cells are positive in monocytic leukemia and true histiocytic lymphomas for CD14. Sinusoidal histiocytes express CD14 and CD169, whereas most of the other monocyte-derived cells in reactive lymph node lack these markers. Anti-CD14 labels numerous diffuse large B-cell lymphomas and splenic marginal zone lymphoma but not in other B-cell lymphomas.

CD15 (Blood Group Antigen Lewis X)



Bone marrow stained with Anti-CD15 using DAB chromogen

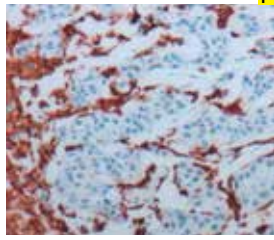
P
 Clone: BRA4F1
 Isotype: IgM
 Source: Mouse
 Immunogen: Myelomonocytic leukemia cells
 Specificity: CD15
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM302-5M
Ready-to-Use (Automated):	
i6000™	AM302-10M
Xmatrx®	AX302-YCD, AX302-50D
Concentrated:	MU302-UC, MU302-5UC
Recommended Positive Control:	FG-302M
Recommended Barrier Control:	FB-302M

CD15 (BRA4F1) reacts with human CD15 antigen present on myeloid cells, mainly granulocytes but not on B cells, T cells, monocytes, erythrocytes or platelets. It also reacts with Hodgkin's and Reed-Sternberg cells in individuals with Hodgkin's disease. This antibody stains CD15 antigen in positive cells.



CD16a



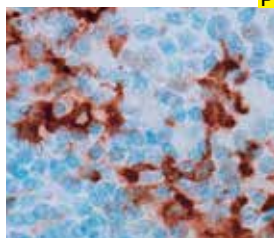
Lung Adeno Cancer tissue stained with anti-Human CD16a using DAB chromogen

Clone: SP189
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide derived from the C-terminus of human CD16a protein
Specificity: Human CD16a
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN749-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN749-10M AY749-YCD, AY749-50D
Concentrated:	NU749-UC, NU749-5UC NU749-1UC
Recommended Positive Control:	FG-749N
Recommended Barrier Control:	FB-749N

CD16 is a cluster of differentiation found on the surface of natural killer cells, neutrophils or polymorphonuclear leukocytes (PMN), monocytes and macrophages. CD16 is a 50-70 kDa glycoprotein which occurs in two isoforms, CD16a and CD16b. CD16a is a transmembrane molecule expressed on about 90% of NK cells and also found on macrophages and subsets of monocytes and T cells. CD16b is glycosylphosphatidylinositol-anchored and is expressed on virtually all neutrophils.

CD16a



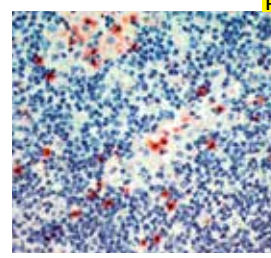
Tonsil stained with anti-Human CD16a using DAB chromogen

Clone: SP175
Isotype: IgG
Source: Rabbit
Immunogen: Tonsil stained with anti-Human CD16a using DAB chromogen
Specificity: Human CD16a
Localization: Cytoplasm and cell-cell junctions
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN762-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN762-10M AY762-YCD, AY762-50D
Concentrated:	NU762-UC, NU762-5UC NU762-1UC
Recommended Positive Control:	FG-762N
Recommended Barrier Control:	FB-762N

CD16 is a cluster of differentiation found on the surface of natural killer cells, neutrophils or polymorphonuclear leukocytes (PMN), monocytes and macrophages. CD16 is a 50-70 kDa glycoprotein which occurs in two isoforms, CD16a and CD16b. CD16a is a transmembrane molecule expressed on about 90% of NK cells and also found on macrophages and subsets of monocytes and T cells. CD16b is glycosyl phosphatidylinositol-anchored and is expressed on virtually all neutrophils.

CD16



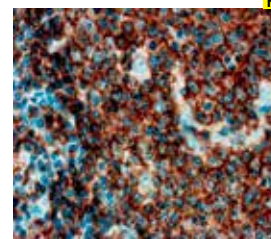
Lymph node stained with Anti-CD16 using AEC chromogen

Clone: 2H7
Isotype: IgG2a
Source: Mouse
Immunogen: Recombinant fusion protein corresponding to the external domain of the CD16 molecule common to both the transmembrane form and the GPI-linked form
Specificity: CD16 antigen
Localization: Membrane & Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM437-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM437-10M AX437-YCD, AX437-50D
Concentrated:	MU437-UC, MU437-5UC
Recommended Positive Control:	FG-437M
Recommended Barrier Control:	FB-437M

CD16 antigen is also known as Fc gamma receptor III and has a molecular weight of 50 to 70kD. It is a low affinity Fc receptor for complexed IgG-Fc gamma RIII, expressed on natural killer (NK) cells, granulocytes, activated macrophages and a subset of T cells expressing alpha-beta or gamma-delta T cell antigen receptors. Antibody-dependent cytotoxicity of NK cells is triggered by the engagement of CD16 with the Fc portion of IgG immunoglobulins bound to target cell-associated antigens. This antibody may be useful in the study of NK cell activity in autoimmune, neoplastic and infectious diseases. This antibody stains the membrane and cytoplasm of positive cells.

CD19



Tonsil stained with anti-CD19 using DAB chromogen

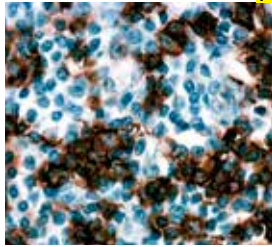
Clone: EP169
Isotype: IgG
Source: Rabbit
Immunogen: A recombinant fragment corresponding to residues in human CD19 protein
Specificity: Human CD19 protein
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN729-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN729-10M AY729-YCD, AY729-50D
Concentrated:	NU729-UC, NU729-5UC NU729-1UC
Recommended Positive Control:	FG-729N
Recommended Barrier Control:	FB-729N

CD19 is expressed on follicular dendritic cells and B cells. In fact, it is present on B cells from earliest recognizable B-lineage cells during development to B-cell blasts but is lost on maturation to plasma cells. It primarily acts as a B cell co-receptor in conjunction with CD21 and CD81. CD19 has been observed in lymphomas and leukemias but often weak/negative in follicular lymphoma or diffuse large B-cell lymphoma. CD19 may provide useful diagnostic information for the study of B-lymphoproliferative disorders.



CD20 (B Cell)



P

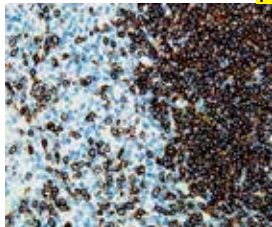
Clone: L-26
 Isotype: IgG2a Kappa
 Source: Mouse
 Immunogen: Human tonsil B cells
 Specificity: CD20
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000 HK547-XAK
 Xmatrx: HX032-YCD

Tonsil tissue stained with Anti-CD-20 using DAB chromogen

Ready-to-Use (Manual):	AM238-5M
Ready-to-Use (Automated):	
i6000™	AM238-10M
Xmatrx®	AX238-YCD, AX238-50D
Concentrated:	MU238A-UC, MU238A-5UC
Recommended Positive Control:	FG-238M
Recommended Barrier Control:	FB-238M

This antibody reacts with a formalin-resistant intracytoplasmic epitope found in the majority of B cells which is now considered to be the CD20 antigen, a pan-B cell marker. The antibody primarily recognizes a 33 kD polypeptide B cell component and also a minor 30 kD cellular antigen. The staining pattern is consistent with pan-B reactivity, producing staining for B cells in lymphoid and peripheral blood tissue. This antibody intensely stains germinal centers and B immunoblasts in lymphoid tissue. L26 may prove to be a useful marker for L&H variants of Reed-Sternberg cells of Hodgkin's lymphomas where reactive pattern is distinct from other Reed-Sternberg variants. This antibody stains positive for membrane and some cytoplasm for B cells.

CD20



P

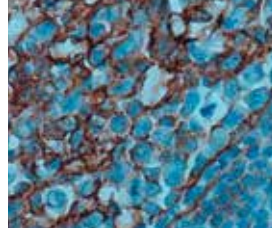
Clone: CD20/C23
 Isotype: IgG1 kappa
 Source: Mouse
 Immunogen: Human CD20
 Specificity: CD20
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000 HK547-XAK
 Xmatrx: HX032-YCD

Tonsil stained with Anti-CD20 using DAB chromogen

Ready-to-Use (Manual):	AM537-5M
Ready-to-Use (Automated):	
i6000™	AM537-10M
Xmatrx®	AX537-YCD, AX537-50D
Concentrated:	MU537-UC, MU537-5UC
Recommended Positive Control:	FG-537M
Recommended Barrier Control:	FB-537M

CD20 is a transmembrane, non-glycosylated protein expressed on B-cell precursors and mature B cells, but is lost following differentiation into plasma cells. This antibody does not cross-react with non-hematopoietic neoplasms. CD20 (B-cell Pan) reacts with a membrane antigen present in B-cells. This antibody strongly recognizes Reed-Sternberg cells predominant in Hodgkin's disease. Since no staining of histiocytes or plasma cells has been observed and CD20 has not been detected in T-cell malignancies, it is a very strong marker of B-cell lymphomas. B-cell panmarker recognizes a formalin resistant intracytoplasmic antigen.

CD21



P

Clone: SP186
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide derived from the C-terminus of human CD21 protein
 Specificity: CD21
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000 HK547-XAK
 Xmatrx: HX032-YCD

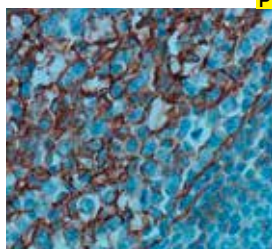
Tonsil tissue stained with anti-CD21 using DAB chromogen

Ready-to-Use (Manual):	AN745-5M
Ready-to-Use (Automated):	
i6000™	AN745-10M
Xmatrx®	AY745-YCD, AY745-50D
Concentrated:	NU745-UC, NU745-5UC
Recommended Positive Control:	FG-745N
Recommended Barrier Control:	FB-745N

RUO

CD21 is a single-pass type 2 transmembrane protein that serves as the complement receptor for C3d and the Epstein-Barr virus. CD21 is useful in the identification of follicular dendritic cell matrix found in normal lymph node and tonsillar tissue. This antibody also labels follicular dendritic cell sarcomas. Anti-CD21 is valuable in differentiating follicular lymphoma with marginal zone differentiation from marginal zone lymphoma with follicular involvement. It also plays a role in separating among nodular lymphocyte predominant Hodgkin lymphoma, lymphocyte-rich classic Hodgkin lymphoma, and T-cell/histiocyte-rich B-cell lymphoma in combination with other B-cell and T-cell markers. The antigen is absent on T-lymphocytes, monocytes, and granulocytes. **For research use only. Not for use in diagnostic procedures.**

CD21



P

Clone: EP64
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the C-terminus of human CD21 protein
 Specificity: Human CD21
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

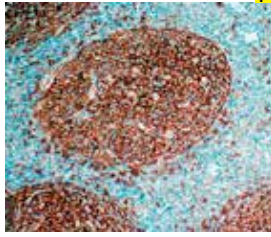
Tonsil tissue stained with anti-CD21 using DAB chromogen

Ready-to-Use (Manual):	AN825-5M
Ready-to-Use (Automated):	
i6000™	AN825-10M
Xmatrx®	AY825-YCD, AY825-50D
Concentrated:	NU825-UC, NU825-5UC
Recommended Positive Control:	FG-825N
Recommended Barrier Control:	FB-825N

CD21 is a single-pass type 2 transmembrane protein that serves as the complement receptor for C3d and the Epstein-Barr virus. Anti-CD21 is valuable in differentiating follicular lymphoma with marginal zone differentiation from marginal zone lymphoma with follicular involvement. It also plays a role in separating among nodular lymphocyte predominant Hodgkin lymphoma, lymphocyte-rich classic Hodgkin lymphoma, and T-cell/histiocyte-rich B-cell lymphoma in combination with other B-cell and T-cell markers. The antigen is absent on T-lymphocytes, monocytes, and granulocytes.



CD21 (B Cell)



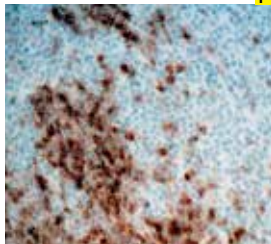
Frozen tonsil stained with Anti-CD21 using AEC chromogen

Clone: B2
Isotype: IgM Kappa
Source: Mouse
Immunogen: Human diffuse poorly differentiated lymphoma cells from a patient with B cell lymphoma
Specificity: B2+ B lymphocytes
Localization: Membrane
Pre-treatment: None

Ready-to-Use (Manual):	AM266-5M
Ready-to-Use (Automated):	
i6000™	AM266-10M
Xmatrx®	AX266-YCD, AX266-50D
Recommended Positive Control:	FG-266M
Recommended Barrier Control:	FB-266M

The B2 antigen, also known as CD21 and CR2, is a 140 kD glycosylated Type 1 integral membrane protein. The CD21 molecule is expressed on mature B lymphocytes, follicular dendritic reticulum cells (FDC), pharyngeal epithelial cells, and possibly on a subset of normal thymocytes. This antigen is also expressed by B lymphocytes in patients with B cell lymphomas, most B cell chronic lymphocytic leukemia (CLL), and a small portion of non-T cell acute lymphoblastic leukemias (ALL). This antibody stains B2 (CD21) antigen in membranes of mature B lymphocytes, follicular dendritic reticulum cells (FDC), pharyngeal epithelial cells, and possibly on a subset of normal thymocytes in frozen tissue sections.

CD22



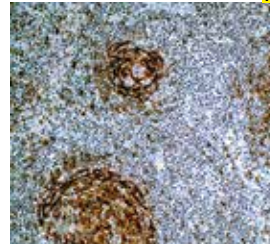
Tonsil stained with anti-CD22 using DAB chromogen

Clone: FPC1
Isotype: IgG1
Source: Mouse
Immunogen: Recombinant fusion protein corresponding to the external domain of the CD22 molecule
Specificity: Human CD22 antigen (BL-CAM)
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000 HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM439-5M
Ready-to-Use (Automated):	
i6000™	AM439-10M
Xmatrx®	AX439-YCD, AX439-50D
Concentrated:	MU439-UC, MU439-5UC
Recommended Positive Control:	FG-439M
Recommended Barrier Control:	FB-439M

The CD22 antigen also known as BL-CAM is a single chain type I transmembrane molecule which contains seven Ig-like domains and molecular weight of 130 to 140kD. In B-cell malignancies, CD22 expression ranges from 60% to 80% depending on the histological type and on the assays used. CD22 antigen is weakly expressed in myeloid leukemias and non-T cell acute lymphoblastic leukemias and is strongly expressed in hairy cell leukemias. It is absent on peripheral blood T cells, T cell leukemias, granulocytes, and monocytes. This antibody stains both the membrane and cytoplasm of B lymphocytes.

CD23



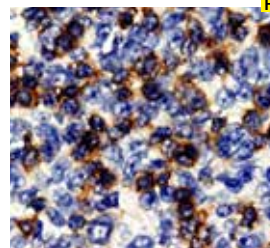
CD23 positivity in Lymph node stained using DAB chromogen

Clone: Polyclonal
Isotype: IgG
Source: Rabbit
Immunogen: CD23 antigen
Specificity: CD23
Localization: Membrane
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AR460-5R
Ready-to-Use (Automated):	
i6000™	AR460-10R
Xmatrx®	AW460-YCD, AW460-50D
Concentrated:	PU460-UP, PU460-5UP
Recommended Positive Control:	FG-460P
Recommended Barrier Control:	FB-460P

CD23 is a 45 kD type II integral membrane glycoprotein that belongs to the C-type lectin family of adhesion molecules. The CD23 molecule is identical to the low affinity IgE receptor found on B-cells. CD23 has been proposed to be an important regulator of IgE synthesis. Anti-CD23 antibody treatment of rats inhibited antigen-specific IgE immune response by 90%. CD23 is a common B cell/monocyte surface antigen. CD23 is expressed on IgM+/IgD+ B cells, as well as on a variety of other cells, including monocytes, eosinophils, dendritic cells, platelets, and macrophages. Expression of CD23 has been detected in neoplastic cells such as chronic lymphocytic leukemia, some cases of lymphoma and is strongly expressed on EBV transformed B lymphoblasts.

CD27



Tonsil stained with Anti-CD27 using DAB chromogen

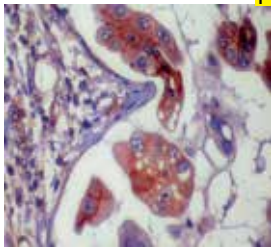
Clone: Polyclonal
Isotype: IgG
Source: Rabbit
Immunogen: CD27 molecule
Specificity: Human CD27
Localization: Cell Membrane
Pre-treatment: EZ-AR2 Elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR912-5R (ASR)
Ready-to-Use (Automated):	
i6000™	AR912-10R (RUO)
Xmatrx®	AW912-YCD, AW912-50D (RUO)
Concentrated:	PU912-UP, PU912-5UP
	PU912-1UP (ASR)
Recommended Positive Control:	FG-912P
Recommended Barrier Control:	FB-912P

CD27 or TNFRSF7, is a type I transmembrane protein and TNF receptor that is expressed on subsets of T, B, NK, and hematopoietic progenitor cells. CD27 controls the activity of these cells by engaging with CD70, which is transiently expressed by cells of the immune system upon activation. Studies have demonstrated that the interaction between CD27 and its ligand, CD70, plays a role in providing costimulation for prolonged lymphocyte survival, enhanced T-cell proliferation, and memory-cell formation. Preclinical studies with fully-human agonistic antibodies to CD27 indicate that responses to CD27 stimulation are recapitulated by human lymphocytes in vitro and in vivo and can promote adaptive immunity in a variety of tumors models. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**



CD29 (Integrin Beta-1 Subunit)



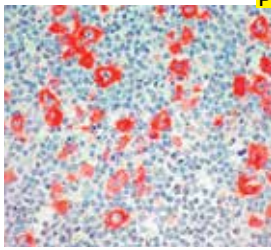
Breast carcinoma expressing CD 29 stained using DAB chromogen

Clone: JB1a
 Isotype: IgG
 Source: Mouse
 Immunogen: Purified β 1 integrin from Jurkat cells
 Specificity: CD29
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM298-5M
Ready-to-Use (Automated):	
i6000™	AM298-10M
Xmatrix®	AX298-YCD, AX298-50D
Concentrated:	MU298-UC, MU298-5UC
	MU298-1UC
Recommended Positive Control:	FG-298M
Recommended Barrier Control:	FB-298M

Integrins play an important role in cell adhesion and migration, and their normal function is critical in the induction and maintenance of cell differentiation. This antibody reacts with CD29, the 130 kD integrin β 1 subunit. CD29 is ubiquitous, with broad tissue distribution, but is not expressed on erythrocytes and is expressed only weakly on granulocytes. Loss or down-regulation of CD29 has been proposed to be one of the general pathways through which carcinoma cells may acquire a more invasive and differentiated phenotype. This antibody stains CD29 antigen in cell membrane of most cells including all leukocytes, although very weak on granulocytes.

CD30 (Ki-1 Antigen)



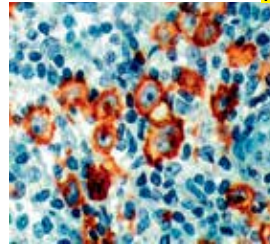
Hodgkins stained with Anti-CD30 using AEC chromogen

Clone: Ber-H2
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Hodgkin's lymphoma cell line L428
 Specificity: CD30 (Ki-1) antigen
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM327-5M
Ready-to-Use (Automated):	
i6000™	AM327-10M
Xmatrix®	AX327-YCD, AX327-50D
Recommended Positive Control:	FG-327M
Recommended Barrier Control:	FB-327M

CD30 (Ki-1 antigen), a 120 kD single chain glycoprotein, is expressed in only a small population of normal lymphoid tissue. By contrast, it is expressed in approximately 50% of all malignant lymphomas including all cases of Hodgkin's disease and a vast majority of Ki-1 positive anaplastic large cell lymphomas. Ki-1 antigen can be detected in sera from lymphoma patients, but not in sera from normal individuals with systemic infection. This antibody stains CD30 (Ki-1) antigen in the membrane of positive cells.

CD30 (Ki-1 Antigen)



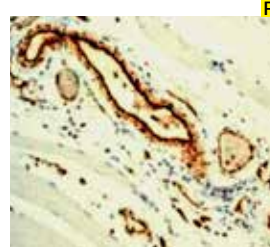
Reed Sternberg cell showing perinuclear dot positivity of CD30 antibody stained using DAB chromogen

Clone: HRS-4
 Isotype: IgG1
 Source: Mouse
 Immunogen: Cell line L540, derived from Hodgkin's disease
 Specificity: CD30 (Ki-1 antigen)
 Localization: Membrane (mostly perinuclear dot positivity) & Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM351-5M
Ready-to-Use (Automated):	
i6000™	AM351-10M
Xmatrix®	AX351-YCD, AX351-50D
Concentrated:	MU351-UC, MU351-5UC
Recommended Positive Control:	FG-351M
Recommended Barrier Control:	FB-351M

CD30 (Ki-1 antigen), a 120 kD single chain glycoprotein, is expressed in only a small population of normal lymphoid tissue. By contrast, it is expressed in approximately 50% of all malignant lymphomas including all cases of Hodgkin's disease and a vast majority of Ki-1 positive anaplastic large cell lymphomas. Ki-1 antigen can be detected in sera from lymphoma patients, but not in sera from normal individuals with systemic infection. This antibody stains CD30 antigen in the membrane and sometimes the cytoplasm of the positive cells.

CD31 (Endothelial Cell)



Endothelial cells stained with Anti-CD31 using DAB chromogen

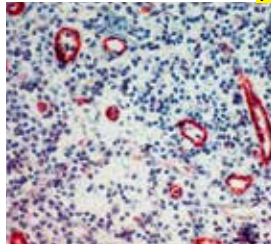
Clone: JC/70A
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Spleen membrane from a patient with hairy cell leukemia
 Specificity: CD31 antigen
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM232-5M
Ready-to-Use (Automated):	
i6000™	AM232-10M
Xmatrix®	AX232-YCD, AX232-50D
Recommended Positive Control:	FG-232M
Recommended Barrier Control:	FB-232M

Anti-CD31 monoclonal antibody JC/70A reacts with a membrane glycoprotein with an apparent size of 100 kD in endothelial cells and 130 kD in platelets. It strongly stains endothelium in normal tissue as well as benign and malignant tumor tissue. The antibody labels megakaryocytes, platelets, and occasionally plasma cells, and weakly stains mantle zone B cells, peripheral T cells and neutrophils. This antibody stains CD31 antigen in membrane and sometimes cytoplasm of endothelial and other positive cells in normal and abnormal tissues.



CD31 (PECAM-1)



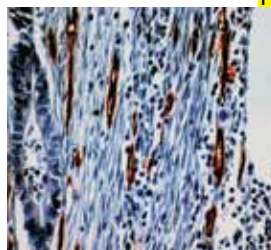
Lymph node stained with Anti-PECAM-1 using AEC chromogen

Clone: 9G11
Isotype: IgG1
Source: Mouse
Immunogen: Activated human umbilical vein endothelial cells
Specificity: CD31
Localization: Membrane & Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000 HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM241-5M
Ready-to-Use (Automated):	AM241-10M
i6000™	AX241-YCD, AX241-50D
Xmatrx®	MU241-YCD, MU241-5UC
Concentrated:	MU241-1UC
Recommended Positive Control:	FG-241M
Recommended Barrier Control:	FB-241M

CD31 (Platelet Endothelial Cell Adhesion Molecule) is a 145 kD cell surface glycoprotein that was originally defined by a monoclonal antibody which is bound to endothelial cells and also to platelets. This protein may be a component involved in the interaction of endothelial cells with coagulation factors, platelets, and the subendothelial matrix. The antibody has been shown to be specific for CD31 and reacts mainly with platelets, monocytes, macrophages, granulocytes, and B cells. The other reactive cells are endothelial cells, histiocytes, and glomeruli. This antibody stains CD31 antigen in membrane of endothelial cells and other positive cells.

CD34 (Endothelial Cell)



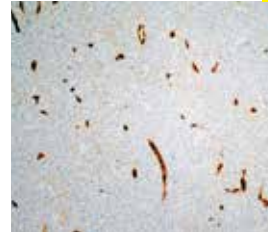
Endothelial cells stained with Anti-CD34 using DAB chromogen

Clone: QBEnd/10
Isotype: IgG1
Source: Mouse
Immunogen: CD34 isolated from human placental endothelial cells
Specificity: CD34
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000 HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM236-5M
Ready-to-Use (Automated):	AM236-10M
i6000™	AX236-YCD, AX236-50D
Xmatrx®	MU236-UC, MU236-5UC
Concentrated:	MU236-1UC
Recommended Positive Control:	FG-236M
Recommended Barrier Control:	FB-236M

This is an antibody to the CD34 antigen in human endothelial and hematopoietic cells. It stains positive in a variety of vascular and lymphatic tumors. QBEnd/10 may now prove to be a more specific method of evaluating vascularization than Factor VIII antibody and is an important tool for tumor evaluation. This antibody stains endothelial cell cytoplasm and cross-reacts with basement membrane collagen.

CD34



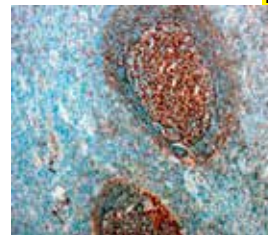
Angiosarcoma stained with anti-human CD34 using DAB chromogen

Clone: EP88
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to C-terminal of human CD34 protein
Specificity: Human CD34
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN779-5M
Ready-to-Use (Automated):	AN779-10M
i6000™	AY779-YCD, AY779-50D
Xmatrx®	NU779-UC, NU779-5UC
Concentrated:	NU779-1UC
Recommended Positive Control:	FG-779N
Recommended Barrier Control:	FB-779N

CD34 functions as a cell-cell adhesion factor and cell-surface glycoprotein. It may also mediate the attachment of stem cells to bone marrow extracellular matrixes or directly to stromal cells. Cells expressing CD34 are normally found in the umbilical cord and bone marrow as hematopoietic cells, and in vascular endothelium. In addition to stem cell recognition, CD34 is expressed by vascular endothelium; it appears that proliferating endothelial cells express this molecule in greater amounts than resting cells. In comparison to factor VIII R Antigen, CD34 is an important marker for quantifying and purifying hematopoietic progenitor/stem cells. It is useful in identification of tumors with endothelial or lymphoid differentiation. In addition, CD34 aids in detection of gastrointestinal stromal tumors.

CD35



Tonsil stained with anti-CD35 using DAB chromogen

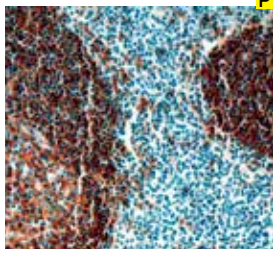
Clone: SP191
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide near from the C-terminus of human CD35 protein
Specificity: CD35
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN741-5M
Ready-to-Use (Automated):	AN741-10M
i6000™	AY741-YCD, AY741-50D
Xmatrx®	NU741-UC, NU741-5UC
Concentrated	NU741-1UC
Recommended Positive Control:	FG-741N
Recommended Barrier Control:	FB-741N

CD35, also named as erythrocyte complement receptor 1 (CR1), is a member of the complement activation (RCA) family and is located in the 'cluster RCA' region of chromosome 1. CD35 expressed by glomerular podocytes, erythrocytes, and leukocytes (B cells, subset of T cells, monocytes, macrophages, neutrophils, and eosinophils). CD35 also can be detected on follicular dendritic cells. It is a marker for the diagnosis of follicular dendritic cell sarcoma. This antibody labels dendritic cells in tonsil and spleen and glomerular podocytes in kidney. **For research use only. Not for use in diagnostic procedures.**



CD35



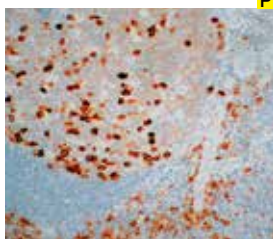
Tonsil stained with Anti-CD35 using DAB chromogen

Clone: RLB25
Isotype: IgG2b
Source: Mouse
Immunogen: Prokaryotic recombinant fusion protein corresponding to the first four complement control protein domains of the CD35 molecule
Specificity: CD35
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM431-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM431-10M AX431-YCD, AX431-50D
Concentrated:	MU431-UC, MU431-5UC
Recommended Positive Control:	FG-431M
Recommended Barrier Control:	FB-431M

The CD35 antigen is a transmembrane monomeric glycoprotein of 60-250kD. It is also known as complement receptor 1 (CR1) or C3b/C4b receptor as it binds the complement components C3b and C4b and thereby helps clear foreign particles. By facilitating C3b and C4b cleavage by factor I and accelerating the decay of the C3 and C5 convertases, CD35 limits complement activation and produces ligands for other complement receptors. CD35 antigen has been used in characterization of tumors of histiocytes and accessory dendritic cells by immunohistochemistry. This antibody stains the membrane of follicular dendritic cells, a subset of T- cells.

CD38



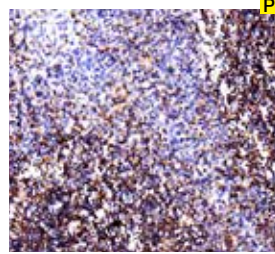
Tonsil stained with anti-Human CD38 using DAB chromogen

Clone: SP149
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide derived from the C-terminus of human CD38 protein
Specificity: Human CD38
Localization: Membrane and cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN769-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN769-10M AY769-YCD, AY769-50D
Concentrated:	NU769-UC, NU769-5UC NU769-1UC
Recommended Positive Control:	FG-769N
Recommended Barrier Control:	FB-769N

CD38 is a transmembrane protein, that is highly expressed on thymocytes. It is also present on activated T-cells and terminally differentiated B-cells (plasma cells). It works on immature T and B cells, monocytes, and natural killer cells. CD38 participates in cell adhesion, signal transduction and calcium signaling. It is expressed at high levels in the plasma cell tumor, prostate cancer, stomach cancer, and neuroblastoma. CD38 is used as one of the plasma cell markers and its ligand is CD31 molecules.

CD40



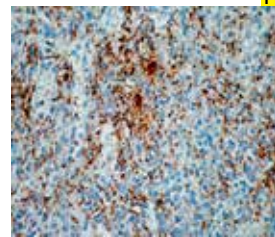
Tonsil stained with Anti-CD40 using DAB chromogen

Clone: CL1673
Isotype: IgG
Source: Mouse
Immunogen: CD40 molecule, TNF receptor super family member 5. Immunogen sequence
Specificity: Human CD40
Localization: Cell Membrane
Pre-treatment: EZ-AR2 Elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM913-5M (ASR)
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM913-10M (RUO) AX913-YCD, AX913-50D (RUO)
Concentrated:	MU913-UC, MU913-5UC MU913-1UC (ASR)
Recommended Positive Control:	FG-913M
Recommended Barrier Control:	FB-913M

CD40 or Bp50 is a member of the TNF receptor superfamily and a central regulator of anti-tumor immunity. Activation of CD40 on the cell surface of antigen presenting cells (APCs) promotes APCs ability to prime antigen-specific T cells and tumor-infiltrating myeloid cells thus enhancing their anti-tumor and anti-fibrotic activity. The ligand for CD40 is CD154, which is expressed on a variety of cell types, including activated T and B cells, endothelial and smooth muscle cells. CD40 is a promising target for cancer immunotherapy and CD40 activation in clinical trials demonstrated encouraging results in patients with pancreatic carcinoma, Hodgkin lymphoma, high-grade B cell lymphoma and metastatic melanoma. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

CD41/Integrin Alpha IIb



Spleen stained with anti-CD41 using DAB chromogen

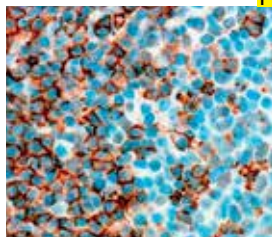
Clone: EP178
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues of human CD41/ Integrin alpha IIb protein
Specificity: CD41/Integrin alpha IIb
Localization: Membrane/Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN732-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN732-10M AY732-YCD, AY732-50D
Concentrated:	NU732-5UC, NU732-5C NU732-1C
Recommended Positive Control:	FG-732N
Recommended Barrier Control:	FB-732N

Integrin alpha chain 2b, also known as CD41, is a heterodimeric integral membrane protein. CD41 is expressed on platelets and megakaryocytes, but also on early embryonic hematopoietic stem cells. The integrin alpha chain associates with a beta 3 chain, CD61. The resulting CD41/CD61 complex is a receptor for fibronectin, fibrinogen, von Willebrand factor, vitronectin and thrombospondin, and has a crucial role in coagulation. Mutations that impair its role in coagulation result in thrombasthenia. **For research use only, not for use in diagnostic procedures.**



CD43



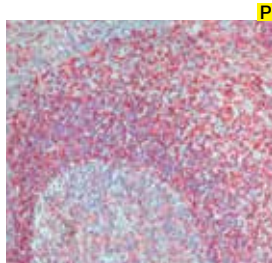
Tonsil tissue stained with anti-CD43 using DAB chromogen

Clone: SP55
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide derived from the human CD43
 Specificity: Human CD43
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN748-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN748-10M AY748-YCD, AY748-50D
Concentrated:	NU748-UC, NU748-5UC NU748-1UC
Recommended Positive Control:	FG-748N
Recommended Barrier Control:	FB-748N

CD43 is one of the major glycoproteins of thymocytes and T lymphocytes. It plays a role in the physicochemical properties of the T cell surface and in lectin binding. Defects in the CD43 molecule are associated with the development of Wiskott-Aldrich syndrome. It also appears in about 25% of intestinal MALTomas. CD43 presents carbohydrate ligands to selectins. It has an extended rodlike structure that could protrude above the glycocalyx of the cell and allow multiple glycan chains to be accessible for binding. The antigen is a counter receptor for SN/Siglec1. During T cell activation CD43 is actively removed from the T cell antigen presenting cell contact site suggesting a negative regulatory role in adaptive immune response. Because it stains granulocytes and their precursors, it is also an effective marker for myeloid tumors.

CD43 & CD45RA Cocktail



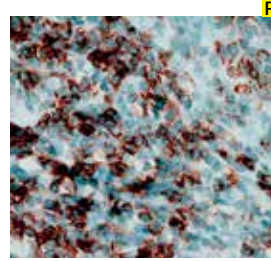
Tonsil stained with Anti-CD43 & Anti-CD45RA cocktail using AEC chromogen

Clone: MT1 & MB1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Hodgkin's lymphoma
 Specificity: Leukocyte
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM159-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM159-10M AX159-YCD, AX159-50D
Recommended Positive Control:	FG-159M
Recommended Barrier Control:	FB-159M

MB1 recognizes a membrane-bound antigen which occurs on all B cells with the exception of plasma cells, and on some mature T cells. The MB1 antigen is not present on immature T cells. MT1 reacts with a membrane-bound antigen which occurs on all T cells. MT1 also reacts with thymocytes, monocytes, macrophages, epidermal Langerhans cells and the Kupffer cells of the liver, as well as with myeloid cells and erythrocyte precursors. The MT1 antigens are not found on mature or activated B cells. This mixture of monoclonal antibodies MT1 and MB1 stains membrane of all leukocytes, and recognizes all T and B cells, as well as NK cells, myeloid cells, monocytes, histiocytes and erythrocyte precursors.

CD43 (T Cell, Leukosialin)



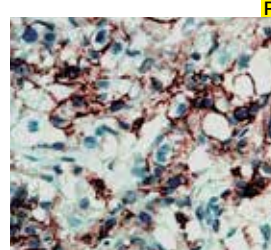
Tonsil stained with Anti-CD43 using DAB chromogen

Clone: DFT-1
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Immature pluripotential human leukemia cell line K562
 Specificity: CD43 and lymphoma or leukemia subtyping
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM305-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM305-10M AX305-YCD, AX305-50D
Concentrated:	MU305-UC, MU305-5UC
Recommended Positive Control:	FG-305M
Recommended Barrier Control:	FB-305M

The CD43 antigen, also known as leukosialin or sialophorin is a 95-110 kD protein. Monoclonal DFT-1 reacts with this protein on T cells and thymocytes and a 115-135 kD molecule on neutrophils and platelets. In addition, the CD43 epitope is present on many cells such as granulocytes, monocytes, macrophages, NK cells, platelets, activated B cells, plasma cells, epidermal Langerhans cells and also on bone marrow hematopoietic stem cells. This antibody stains CD43, a membrane-bound antigen found on all T cells, macrophages, monocytes, and epidermal Langerhans cells.

CD44 (Phagocytic Glycoprotein-1, HCAM)



Breast Tissue stained with Anti-CD44 using DAB chromogen

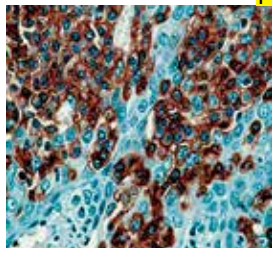
Clone: DF1485
 Isotype: IgG2b
 Source: Mouse
 Immunogen: Cell surface glycoprotein CD44
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM310-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM310-10M AX310-YCD, AX310-50D
Concentrated:	MU310-UC, MU310-5UC
Recommended Positive Control:	FG-310M
Recommended Barrier Control:	FB-310M

CD44 (phagocytic glycoprotein-1, homing cell adhesion molecule, HCAM, CD44s) is a cell surface 80-90 kD glycoprotein important in lymphocyte homing, T-cell activation and adhesion to hyaluronate and matrix proteins. It is expressed on the surface of a wide variety of cells, among which are T-cells, B-cells, monocytes, fibroblasts, keratinocytes, vascular endothelial cells, columnar epithelium of the GI tract, and transitional epithelium of the urinary tract. This antibody stains CD44 antigen in cell membranes of various cells such as T cells, B cells, monocytes, granulocytes and even on most erythrocytes, epithelial cells, central nervous white matter, fibroblasts, skeletal muscle and on a wide variety of tumors.



CD45 (Leukocyte Common Antigen, LCA)



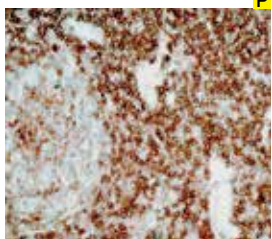
Tonsil expressing strong LCA positivity using DAB chromogen

Clone: PD7/26/16 & 2B11
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Human lymphocytes
 Specificity: CD45
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM111-5M
Ready-to-Use (Automated):	
i6000™	AM111-10M
Xmatrix®	AX111-YCD, AX111-50D
Recommended Positive Control:	FG-111M
Recommended Barrier Control:	FB-111M

This antibody against CD45 (Leukocyte Common Antigen) recognizes the 200 kD antigen found on lymphoid cells, macrophages, histiocytes, and neutrophils. CD45 is helpful in determining the leukocytic nature of anaplastic tumors. Combined with other antibodies such as those to cytokeratins and S-100 protein, this monoclonal antibody to leukocyte common antigen can be used in the characterization of undifferentiated large cell neoplasms. Most neoplastic B cells and T cells stain positive in leukemia and in non-Hodgkins lymphomas, whereas most neoplastic myeloid and erythroid cells are negative. This antibody labels lymphoid cells and to a lesser extent macrophages, histiocytes, and granulocytes.

CD45 (Leukocyte Common Antigen, LCA)



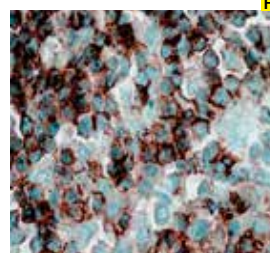
Spleen Tissue stained with Anti-CD45 using DAB chromogen

Clone: LJ 27.9
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human lymphocytes
 Specificity: Leukocyte Common Antigen
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM338-5M
Ready-to-Use (Automated):	
i6000™	AM338-10M
Xmatrix®	AX338-YCD, AX338-50D
Concentrated:	MU338-UC, MU338-5UC
Recommended Positive Control:	FG-338M
Recommended Barrier Control:	FB-338M

The Leukocyte Common Antigen consists of a family of heavily glycosylated glycoproteins of apparent MW 180-240kD. CD45 may function in the regulation of L-selectin (CD62L), in regulation of B-lymphocyte negative and positive selection and in T-cell activation. It stains lymphocytes, monocytes, eosinophils, and also neoplastic cells of lymphoid origin. Neoplastic B cells and T cells in leukemia and in non-Hodgkin's lymphomas stain positive. This antibody stains CD45 antigen in membrane and cytoplasm of the majority of human leukocytes.

CD45 Cocktail (Leukocyte Common Antigen, LCA)



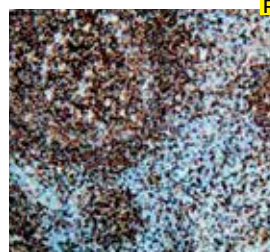
LCA positivity on Anaplastic Large Cell Lymphoma stained using DAB chromogen

Clone: MEM55+LJ 27.9
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human lymphocytes
 Specificity: CD45
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM371-5M
Ready-to-Use (Automated):	
i6000™	AM371-10M
Xmatrix®	AX371-YCD, AX371-50D
Concentrated:	MU371-UC, MU371-5UC
Recommended Positive Control:	FG-371M
Recommended Barrier Control:	FB-371M

CD45 (LCA) is a transmembrane protein-tyrosine-phosphatase. The LCA family includes a group of proteins present on all mature B and T lymphocytes, thymocytes, macrophages, spleen, lymph node, chronic lymphatic leukemia cells, bone marrow, thymus, and granulocytes. It is absent in brain, kidney, liver, heart, erythrocytes, platelets, and normal serum. This antibody may be useful in the evaluation of malignant lymphoma and nonlymphoid tumors. Neoplastic B and T cells in leukemia and in non-Hodgkin's lymphoma stain positive and hence can be distinguished from sarcomas and carcinomas. This antibody stains CD45 antigen on the membrane of most leukocytes.

CD45RA (B Cell)



Tonsil stained with Anti-CD45R using DAB chromogen

Clone: MB1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Hodgkin's lymphoma cell line DEV
 Specificity: CD45RA
 Localization: Membrane
 Pre-treatment: None
 Manual/i6000: None
 Xmatrix: None

Ready-to-Use (Manual):	AM157-5M
Ready-to-Use (Automated):	
i6000™	AM157-10M
Xmatrix®	AX157-YCD, AX157-50D
Recommended Positive Control:	FG-157M
Recommended Barrier Control:	FB-157M

CD45RA is a restricted isoform of LCA of about 220 kD. MB1 recognizes a membrane-bound antigen which occurs on all B cells with the exception of plasma cells, and on some mature T cells. The antigen which is identified by this monoclonal antibody is not present on immature T cells. This antibody stains CD45RA antigen on the membrane of all B cells with the exception of plasma cells and some mature T cells.



CD45RB



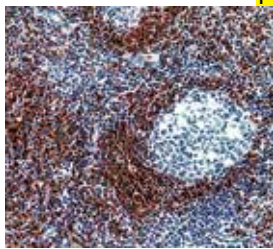
Tonsil stained with Anti-CD45RB using DAB chromogen

Clone: MEM55
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human lymphocytes
 Specificity: CD45RB antigen
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM320-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM320-10M
Xmatrx [®]	AX320-YCD, AX320-50D
Concentrated:	MU320-UC, MU320-5UC
Recommended Positive Control:	FG-320M
Recommended Barrier Control:	FB-320M

CD45RB, which includes three glycoproteins with molecular mass of 190, 205 and 220 kD, has been found to belong to the CD45 family. Monoclonal antibody MEM55 can be used to stain CD45RB antigen on most T cells, B cells, monocytes, and macrophages. The cellular distribution of CD45RB is very similar to that of other conventional CD45 antibodies, except that some cells, such as Langerhan's cells and a small subset of T cells, are negative. This antibody stains the CD45RB antigen, the isoform of the leukocyte common antigen encoded by exon B.

CD45RC (T Cell)



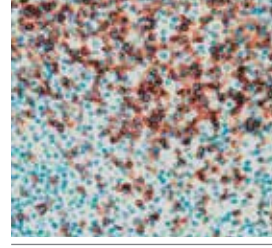
T Cells in Tonsil stained with Anti-CD45RC using DAB chromogen

Clone: MT2
 Isotype: IgG1
 Source: Mouse
 Immunogen: Lymph node involving chronic lymphatic leukemia
 Specificity: CD45RC
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM156-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM156-10M
Xmatrx [®]	AX156-YCD, AX156-50D
Concentrated:	MU156-UC, MU156-5UC
Recommended Positive Control:	FG-156M
Recommended Barrier Control:	FB-156M

Clone MT2 has previously been described as CD45RA but due to its reactivity with transfectants and its identical staining pattern with ORTH75E4 it is now recognized as CD45RC. Clone MT2 reacts with membrane-bound antigen which is present on mature, non-activated T and B cells. It reacts with medullary thymocytes, with mantle zone lymphocytes in follicles of lymph nodes and spleen, with lymphocytes of the paracortex, with peripheral blood B cells, with T suppressor/cytotoxic cells and NK cells. This clone is used for differentiation of non-Hodgkin lymphomas.

CD45RO (T Cell)



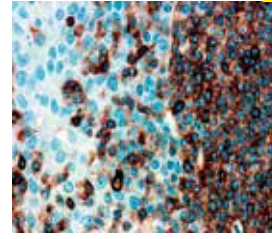
Tonsil stained with Anti-CD45RO using DAB chromogen

Clone: UCHL-1
 Isotype: IgG 2a Kappa
 Source: Mouse
 Immunogen: IL-2 dependent T cell line CA1
 Specificity: T cells
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM113-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM113-10M
Xmatrx [®]	AX113-YCD, AX113-50D
Concentrated:	MU113-UC, MU113-5UC
Recommended Positive Control:	FG-113M
Recommended Barrier Control:	FB-113M

This antibody recognizes a 185 kD molecule (CD45RO) which occurs on mature activated T cells, most thymocytes, and a sub-population of resting T cells within both the CD4 and CD8 subsets. UCHL-1 shows no reactivity with normal B or NK cells, but will react with granulocytes and monocytes. This antibody can be used as a marker of T cell lymphomas and other T cell neoplasms. The antigen has been shown to be immunologically unrelated to the lymphocyte-function-associated antigen (LFA-1), which has a similar molecular weight. This antibody stains the membrane and sometimes the cytoplasm of CD45RO positive cells.

CD48



Tonsil stained with anti-CD48 using DAB chromogen

Clone: EP148
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD48 protein
 Specificity: CD48 protein
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN721-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN721-10M
Xmatrx [®]	AY721-YCD, AY721-50D
Concentrated:	NU721-UC, NU721-5UC
Recommended Positive Control:	FG-721N
Recommended Barrier Control:	FB-721N

CD48 (BLAST1) is an activation-associated, glycosylphosphatidylinositol (GPI)-anchored cell surface glycoprotein expressed primarily in mitogen-stimulated human lymphocytes. CD48 is expressed on T cells, B cells, thymocytes and splenocytes. Both normal and malignant white blood cells express CD48 on their membrane surface, but greater than 95% of CD34+ hematopoietic stem cells do not express CD48. CD48 is expressed at higher levels on human Burkitt's lymphoma cell lines, Raji and most acute myeloid leukemia cells with phenotype CD34-/CD13+/CD33+. **For research use only, not for use in diagnostic procedures.**



CD53



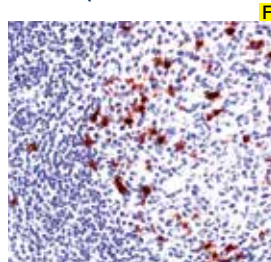
Tonsil stained with anti-CD53 using DAB chromogen

P
 Clone: EP179
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD53
 Specificity: CD53
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN734-5M
Ready-to-Use (Automated):	
i6000™	AN734-10M
Xmatrix®	AY734-YCD, AY734-50D
Concentrated:	NU734-UC, NU734-5UC
	NU734-1UC
Recommended Positive Control:	FG-734N
Recommended Barrier Control:	FB-734N

Leukocyte surface antigen CD53 is a protein that in humans is encoded by the CD53 gene. The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. The function of this family in a number of different cell types may be involved in transmembrane signal transduction and regulation of cell proliferation and differentiation, or both. CD53 is broadly expressed on leukocytes, including B cells, T cells, monocytes and granulocytes. It has been demonstrated to be a specific and reliable marker for leukocytes. This antibody strongly labels normal and neoplastic cells with hematopoietic origin.

CD56 (Natural Killer Cell, NCAM)



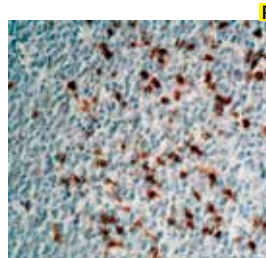
Frozen Tonsil stained with Anti-CD56 using AEC chromogen

F
 Clone: NKH-1
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Human chronic myeloid leukemia cells
 Specificity: CD56 (NKH-1)
 Localization: Membrane
 Pre-treatment: None

Ready-to-Use (Manual):	AM268-5M
Ready-to-Use (Automated):	
i6000™	AM268-10M
Xmatrix®	AX268-YCD, AX268-50D
Concentrated:	MU268-UC, MU268-5UC
Recommended Positive Control:	FG-268M
Recommended Barrier Control:	FB-268M

The NKH-1 antigen is present on a subpopulation of 10 to 15% of human peripheral blood lymphocytes (PBL) and is expressed on all cells which mediate non-MHC restricted cytotoxicity. Therefore, it is a pan natural killer (NK) cell antigen. This antibody reacts with one of the three distinct epitopes that have been identified: the NKH1b epitope. It can also be of value in the immunophenotyping of tumors derived from neuroectodermal tissue. This antibody stains CD56 (NKH-1) on peripheral blood large granular lymphocytes in frozen tissue sections.

CD57 (Natural Killer Cell)



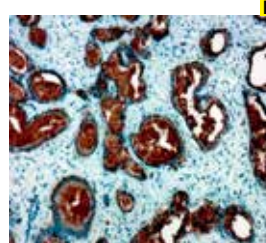
Tonsil stained with Anti-CD57 using DAB chromogen

P
 Clone: NK-1
 Isotype: IgM
 Source: Mouse
 Specificity: CD57 (natural killer cell, also called HNK1)
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM314-5M
Ready-to-Use (Automated):	
i6000™	AM314-10M
Xmatrix®	AX314-YCD, AX314-50D
Concentrated:	MU314-UC, MU314-5UC
Recommended Positive Control:	FG-314M
Recommended Barrier Control:	FB-314M

Monoclonal antibody NK-1 recognizes CD57, also called HNK-1 or Leu 7 antigen. It is a 110 kD myeloid, cell-associated surface glycoprotein. The antigen is common to leukocytes and neuroectodermal cells. It is present in most cancers with neuronal as well as glial characteristics. Tumors and normal cells derived from the neuroectoderm or the APUD (diffuse neuroendocrine system) tumors also express this antigen. Anti-natural killer cell antibodies used in combination with anti-S-100 antibodies aid in the differentiation of Schwann cell neoplasms from histologically similar fibrosarcomas. This antibody stains CD57 on the membrane of natural killer cells in both normal and abnormal tissues.

CD63



Prostate tissue stained with anti-CD63 using DAB chromogen

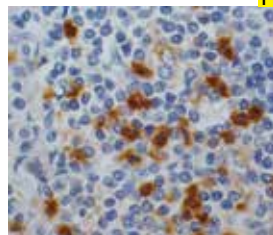
P
 Clone: EP211
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD63
 Specificity: CD63
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AN720-5M
Ready-to-Use (Automated):	
i6000™	AN720-10M
Xmatrix®	AY720-YCD, AY720-50D
Concentrated:	NU720-UC, NU720-5UC
Recommended Positive Control:	FG-720N
Recommended Barrier Control:	FB-720N

CD63, a 53 kD lysosomal membrane glycoprotein is expressed on activated platelets, monocytes and macrophages, also weakly expressed on granulocytes, T cell and B cells. It is strongly expressed in early melanoma, breast carcinoma, merkel cell carcinoma, astrocytoma and lung adenocarcinoma. Recent reports also indicate that CD63 is a good prognostic biomarker for human astrocytomas and earlier stages of lung carcinoma. **For research use only, not for use in diagnostic procedures.**



CD66



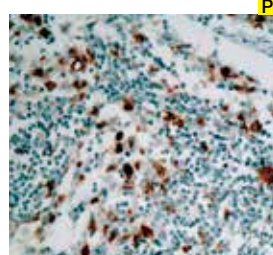
Reactive node stained with Anti-CD66 using DAB chromogen

Clone: BY114
 Isotype: IgG
 Source: Mouse
 Immunogen: Human B cell lymphoma
 Specificity: CD66 antigen
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM325-5M
Ready-to-Use (Automated):	
i6000™	AM325-10M
Xmatrix®	AX325-YCD, AX325-50D
Recommended Positive Control:	FG-325M
Recommended Barrier Control:	FB-325M

Clone BY114, also known as NCA90 (Non-cross reacting antigen 90), is a unique monoclonal antibody that recognizes CD66CE which is a 90 kD antigen found principally on neutrophils. In contrast to many antibodies which recognize granulocyte-associated antigens present on other leukocytes, this antibody recognizes only granulocytes. The anti-CD66 monoclonal antibody, therefore, is very useful for differentiation of normal and neoplastic cells of granulocyte origin. Monoclonal antibody BY114 can be used to stain neutrophils in tonsil, spleen, liver, kidney, pancreas, and lung. This antibody stains phosphatidylinositol (PI) linked protein on granulocyte and squamous epithelium.

CD68



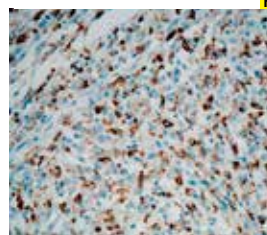
Lymph node stained with Anti-CD68 using DAB chromogen

Clone: KP1
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Lysosomal granules from human lung macrophage
 Specificity: Macrophages
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM416-5M
Ready-to-Use (Automated):	
i6000™	AM416-10M
Xmatrix®	AX416-YCD, AX416-50D
Concentrated:	MU416-UC, MU416-5UC
Recommended Positive Control:	FG-416M
Recommended Barrier Control:	FB-4168M

CD68 antigen, a 110-kD type 1 membrane glycoprotein, appears in endosomes or lysosomes (long variant) and to a lesser extent on the cell surface (short variant). It is highly expressed by blood monocytes and tissue macrophages. It is also reported to be expressed in immature myeloid cells, lymphoma, many tumor cell lines, and some epithelial tumors, although the labeling is usually less intense than in macrophages. Clone KP1 reacts strongly with a fixative-resistant epitope of CD68 protein that is expressed by virtually all macrophages of the human body. The CD68 antibody can be used as part of a panel in the evaluation of poorly differentiated neoplasms in cytological materials.

CD68



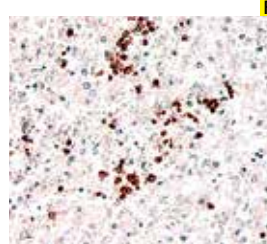
Histiocytoma stained with Anti-CD68 using DAB chromogen

Clone: CD68/G2
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human CD68
 Specificity: CD68
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM549-5M
Ready-to-Use (Automated):	
i6000™	AM549-10M
Xmatrix®	AX549-YCD, AX549-50D
Concentrated:	MU549-UC, MU549-5UC
Recommended Positive Control:	FG-549M
Recommended Barrier Control:	FB-549M

The CD68 antigen is a heavily glycosylated transmembrane protein of 87-115 kD which is specifically expressed by tissue macrophages, Langerhans cells and at low levels by dendritic cells. This antibody is capable of staining monocytes, Kupffer cells, osteoclasts, granulocytes and their precursors; Lymphomas are negative or show a few granules. This antibody may be useful for the identification of myelomonocytic and histiocytic tumors. CD68 may help to distinguish malignant fibrous histiocytoma from other pleomorphic sarcomas. However, since CD68 detects a formalin-resistant epitope that may be associated with lysosomal granules, other lysosome-rich cells may also produce positive results.

CD71 (Transferrin Receptor)



Frozen Liver stained with Anti-CD71 using DAB chromogen

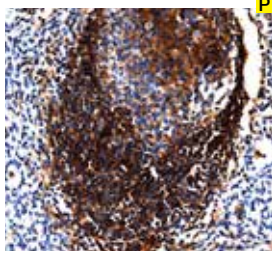
Clone: T9
 Isotype: IgM Kappa
 Source: Mouse
 Immunogen: Human T cell chronic lymphocytic leukemia cells
 Specificity: CD71 (Transferrin Receptor T9)
 Localization: Membrane
 Pre-treatment: None

Ready-to-Use (Manual):	AM269-5M
Ready-to-Use (Automated):	
i6000™	AM269-10M
Xmatrix®	AX269-YCD, AX269-50D
Recommended Positive Control:	FG-269M
Recommended Barrier Control:	FB-269M

This antibody reacts with CD71 antigen (also known as T9 or Transferrin Receptor), a homodimeric type II membrane protein consisting of two identical subunits of approximately 95 kD covalently linked by two intermolecular disulfide bonds. This antigen has also been identified on the endothelium of brain capillaries, on carcinomas and sarcomas of various origins as well as on both high- and low-grade malignant lymphomas. This antibody stains the T9 antigen activated lymphocytes, myelocytes, and nucleated erythrocyte precursors in frozen tissue sections.



CD73



P

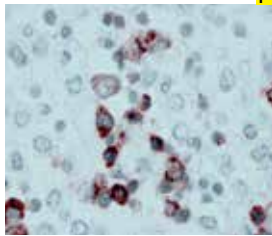
Clone: 1D7
 Isotype: IgG
 Source: Mouse
 Immunogen: Purified recombinant fragment of NT5E expressed in E. Coli.
 Specificity: Human CD73
 Localization: Cell Membrane
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Tonsil stained with Anti-CD73 using DAB chromogen

Ready-to-Use (Manual):	AM904-5M (ASR)
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM904-10M (RUO)
Xmatrx [®]	AX904-YCD, AX904-50D (RUO)
Concentrated:	MU904-UC, MU904-5UC
	MU904-1UC (ASR)
Recommended Positive Control:	FG-904M
Recommended Barrier Control:	FB-904M

CD73 or NT5E (ecto-5'-nucleotidase) is a GPI-anchored enzyme that generates extracellular adenosine, a potent immunosuppressive metabolite in the tumor microenvironment. CD73-adenosinergic pathway contributes to tumor immune escape in animal mouse models of cancer and was also shown to suppress antitumor T cells in human ovarian cancer. Monoclonal antibody treatment targeting CD73 has been shown to delay ovarian tumor growth in mice and to rescue human T-cell functions when co-cultured with CD73-expressing human ovarian cancer cells. CD73 over expression was demonstrated in various cancer including breast cancer, colon cancer, glioma, leukemia, melanoma, ovarian cancer, pancreatic cancer, prostate cancer and thyroid cancer. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

CD71 (Transferrin Receptor)



P

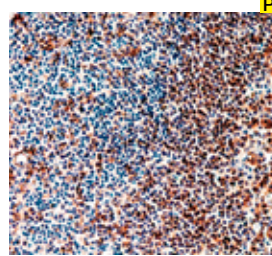
Clone: H68.4
 Isotype: IgG1
 Source: Mouse
 Immunogen: Baculovirus-expressed, recombinant human Transferrin Receptor
 Specificity: CD71 (Transferrin Receptor)
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Tonsil stained with Anti-CD71 using DAB chromogen

Ready-to-Use (Manual):	AM354-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM354-10M
Xmatrx [®]	AX354-YCD, AX354-50D
Concentrated:	MU354-UC, MU354-5UC
	MU354-1UC
Recommended Positive Control:	FG-354M
Recommended Barrier Control:	FB-354M

This antibody reacts with CD71 antigen (also known as T9 or Transferrin Receptor), a homodimeric type II membrane protein consisting of two identical subunits of approximately 95 kD covalently linked by two intermolecular disulfide bonds. Transferrin Receptor is present on 10% of thymocytes, activated lymphocytes, myelocytes, and nucleated erythrocyte precursors. Broad distribution of Transferrin Receptor (TR) has been observed on carcinomas and sarcomas of various origins and malignant lymphomas. Clone H68.4 is specifically directed against the human Transferrin Receptor cytoplasmic tail. This antibody stains the cytoplasm and membrane of activated lymphocytes and erythroid precursors.

CD74 (B Cell)



P

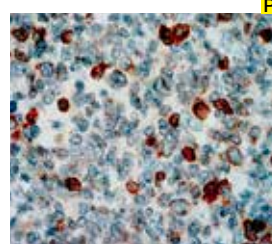
Clone: LN2
 Isotype: IgG1
 Source: Mouse
 Immunogen: Nuclei from diffuse histiocytic lymphoma cells (SU-DHL-4)
 Specificity: CD74
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Tonsil stained with Anti-CD74 using DAB chromogen

Ready-to-Use (Manual):	AM153-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM153-10M
Xmatrx [®]	AX153-YCD, AX153-50D
Concentrated:	MU153-UC, MU153-5UC
Recommended Positive Control:	FG-153M
Recommended Barrier Control:	FB-153M

LN2 recognizes the 35 kD Class II invariant chain expressed in the nuclear membrane and cytoplasm of B lymphocytes and is suitable for differentiating between B-cell and T-cell lymphomas. It reacts with a nuclear membrane antigen expressed by B cells of mantle zones and germinal centers, and with the nuclear membrane of interdigitating cells in lymph nodes. It also reacts with Reed-Sternberg cells and their variants in Hodgkin's disease, and sporadically with antigens expressed by tumor cells of epithelial origin. This antibody stains nucleus, membrane and cytoplasm of B-cells.

CD79a



P

Clone: 11E3
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Recombinant CD79a protein internal domain
 Specificity: CD79a antigen
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

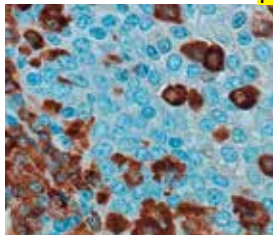
Tonsil tissue stained with Anti-CD79a using DAB chromogen

Ready-to-Use (Manual):	AM414-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM414-10M
Xmatrx [®]	AX414-YCD, AX414-50D
Concentrated:	MU414-UC, MU414-5UC
Recommended Positive Control:	FG-414M
Recommended Barrier Control:	FB-414M

CD79a, also known as Ig-alpha, mb-1 membrane glycoprotein, is a type I membrane glycoprotein with a total of 226 amino acids and a molecular weight of 47 kD. CD79a forms a heterodimer with CD79b through disulfide-bonds and further forms a complex in a noncovalent fashion with membrane immunoglobulins. Both CD79a and CD79b are expressed almost exclusively on B cells and B-cell neoplasms. In addition, CD79a and CD79b antibodies are useful markers in the evaluation of precursor B-acute lymphoblastic leukemia (pre-B-ALL) because many of these tumors are negative for other B-cell markers, such as CD20 and CD45RA.



CD79a



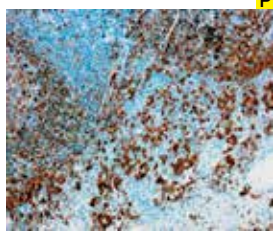
Tonsil stained with anti-Human CD79a using DAB chromogen

Clone: SP18
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide derived from N-terminus of human CD79a protein
Specificity: Human CD79a
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN767-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN767-10M AY767-YCD, AY767-50D
Concentrated:	NU767-UC, NU767-5UC NU767-1UC
Recommended Positive Control:	FG-767N
Recommended Barrier Control:	FB-767N

CD79 consist of two proteins, CD79a (mb-1) and CD79b (B29). CD79a recognizes the Ig-alpha protein, and CD79b recognizes the Ig-beta protein of the B-cell antigen component of the B-lymphocyte antigen receptor. The CD79a protein is present on the surface of B-cells throughout their life cycle, and is absent on all other healthy cells and is an excellent marker for identification of normal and neoplastic B lymphocytes. The protein remains present when B-cells transform into active plasma cells, and is also present in virtually all B-cell neoplasms, including B-cell lymphomas, plasmacytomas, and myelomas. It is also present in abnormal lymphocytes associated with some cases of Hodgkin's disease.

CD79a



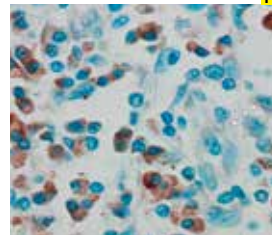
Lymph node stained with anti-CD79a using DAB chromogen

Clone: EP82
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide derived from the extracellular region of human CD79a protein
Specificity: CD79a
Localization: Membrane/Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN719-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN719-10M AY719-YCD, AY719-50D
Concentrated:	NU719-UC, NU719-5UC
Recommended Positive Control:	FG-719N
Recommended Barrier Control:	FB-719N

CD79 consist of two proteins, CD79a (mb-1) and CD79b (B29). CD79a recognizes the Ig-alpha protein, and CD79b recognizes the Ig-beta protein of the B-cell antigen component of the B-lymphocyte antigen receptor. CD79a is an excellent marker for identification of normal and neoplastic B lymphocytes. It has been found to be co-expressed with CD3 in 10% of cases of T-lymphoblastic leukemia/lymphoma. Antibodies to CD79a may also be useful in the differential diagnosis of Hodgkin's disease.

CD82



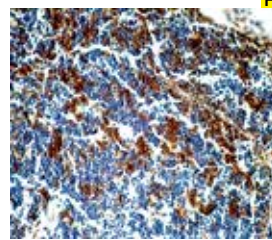
Adeno cancer stained with anti-CD82

Clone: EP160
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues on the C-terminus in the intracellular domain of human CD82 protein
Specificity: Human CD82
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN757-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN757-10M AY757-YCD, AY757-50D
Concentrated:	NU757-UC, NU757-5UC NU757-1UC
Recommended Positive Control:	FG-757N
Recommended Barrier Control:	FB-757N

CD82, also known as metastasis suppressor Kangai-1 (KAI1), is a member of the tetraspanin protein family and is a metastasis suppressor implicated in biological processes ranging from fusion, adhesion and migration to apoptosis and cell-morphology alterations. In tumors, the expression of CD82 has been shown to be downregulated in tumor progression. CD82 can be activated by p53 through a consensus binding sequence in the promoter. Loss of p53 function, which is commonly observed in many types of cancers, may lead to the downregulation of the CD82 gene. The correlation between lower or no expression of CD82 and poor tumor prognosis is observed in many types of tumors, including prostate, breast, colon, stomach, bladder, lung, liver, pancreas, and ovary tumors.

CD90



Thymus stained with anti-CD90

Clone: EP56
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues near the N-terminus of human CD90 protein
Specificity: Human CD90 protein
Localization: Membrane/Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN733-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN733-10M AY733-YCD, AY733-50D
Concentrated:	NU733-UC, NU733-5UC NU733-1UC
Recommended Positive Control:	FG-733N
Recommended Barrier Control:	FB-733N

CD90 is expressed on thymocytes, neurons, glial cells, endothelial cells, fibroblasts, fetal liver cells and hematopoietic stem cells in normal bone marrow and cord blood. Thy-1 has been used as a marker for a variety of stem cells and for the axonal processes of mature neurons. CD90 is associated with unfavorable clinical and biological features in acute myeloid leukemia. In prostate cancer, CD90 has been reported to be overexpressed in cancer associated fibroblasts and serves as a marker for prostate cancer-associated stroma.



CD95/FAS



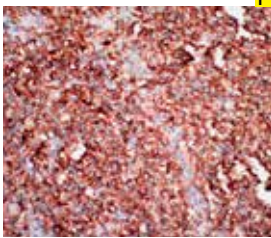
Tonsil stained with anti-CD95 using DAB chromogen

Clone: EP208
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD95 protein
 Specificity: CD95
 Localization: Cytoplasm and membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN742-5M
Ready-to-Use (Automated):	
i6000™	AN742-10M
Xmatrix®	AY742-YCD, AY742-50D
Concentrated:	NU742-UC, NU742-5UC
Recommended Positive Control:	FG-742N
Recommended Barrier Control:	FB-742N

The CD95 (Fas) protein is a cell surface receptor belonging to the tumor necrosis factor (TNF) family that transduces death signaling on engagement by multimeric Fas ligand (CD95L), of which there are eight in its membrane-bound form or in its soluble form resulting from cleavage by a putative metalloproteinase. CD95 is a widely expressed protein. During embryonic and postembryonic development, many cells die by means of apoptosis. This plays a major role in determining morphological and functional maturity in a variety of systems, including the formation of the neural network and clonal deletion of autoreactive T cells. The Fas death system also plays important roles in various apoptosis conditions such as those evoked by irradiation, chemotherapeutic agents and viral infections. The expression of CD95 serves as a prognostic marker in predicting the outcome of disease progression and treatment in many types of tumors. **For research use only, not for use in diagnostic procedures.**

CD99



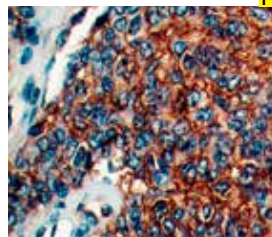
Ewing sarcoma stained with anti-Human CD99 using DAB chromogen

Clone: EP8
 Isotype: IgG
 Source: Rabbit
 Immunogen: Residues of human CD99 protein.
 Specificity: Human CD99
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN850-5M
Ready-to-Use (Automated):	
i6000™	AN850-10M
Xmatrix®	AY850-YCD, AY850-50D
Concentrated:	NU850-UC, NU850-5UC NU850-1UC
Recommended Positive Control:	FG-850N
Recommended Barrier Control:	FB-850N

CD99 is a transmembrane glycoprotein, also known as MIC2. It is involved in T cell adhesion, leukocyte migration and differentiation of primitive neuroectodermal cell. CD99 labels lymphocyte, ovarian granulosa cells, pancreatic islet cells, sertoli cells, CNS ependymal cells and endothelial cells. CD99 has been useful in diagnosis of Ewing's sarcoma, sex cord-stromal tumor, endocrine tumor of pancreas. Additionally, it is found in a subset of other tumors including lymphoblastic lymphoma, breast carcinoma and other malignancies.

CD99 (MIC2 Antigen)



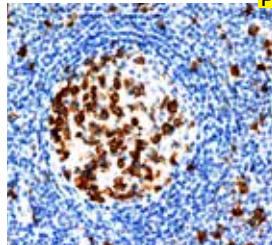
Ewing's sarcoma stained with Anti-CD99 stained using DAB chromogen

Clone: HO36.1.1
 Isotype: IgM
 Source: Mouse
 Immunogen: Purified E-rosette forming cells from human peripheral blood lymphocytes
 Specificity: CD99 (MIC2 antigen)
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM355-5M
Ready-to-Use (Automated):	
i6000™	AM355-10M
Xmatrix®	AX355-YCD, AX355-50D
Concentrated:	MU355-UC, MU355-5UC
Recommended Positive Control:	FG-355M
Recommended Barrier Control:	FB-355M

CD99 is a 32 kD membrane glycoprotein expressed by human thymocytes, most T-ALL cells, some red blood cells, and the small cell round tumors of Ewing's sarcoma and peripheral neuroectodermal tumors. The CD99 protein is known to be involved in T-cell-adhesion events. CD99 has been found to be expressed in lymphoblastic lymphomas, large cell lymphomas, and many cases of pediatric acute lymphocytic leukemia. This antibody stains CD99 antigen in human thymocytes and some T-ALL isolates and other positive cells.

CDK1



Tonsil stained with Anti-CDK1 using DAB chromogen

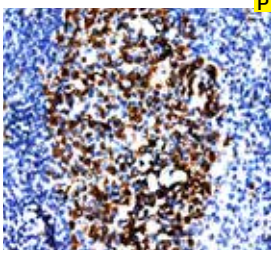
Clone: A17.1.1
 Isotype: IgG
 Source: Mouse
 Immunogen: C-Terminal 2/3 of Xenopus CDC2 expressed in E. coli
 Specificity: Human, mouse, rat, chicken CDK1
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM905-5M (ASR)
Ready-to-Use (Automated):	
i6000™	AM905-10M (RUO)
Xmatrix®	AX905-YCD, AX905-50D (RUO)
Concentrated:	MU905-UC, MU905-5UC MU905-1UC (ASR)
Recommended Positive Control:	FG-905M
Recommended Barrier Control:	FB-905M

CDK1 (Cyclin-dependent kinase 1), also known as CDC2 (cell division cycle protein 2 homolog) is a highly conserved protein that functions as a serine/threonine kinase, and is a key player in cell cycle regulation and the only CDK that can initiate the onset of mitosis. At the onset of mitosis activation of CDK1 occurs rapidly. Subsequently, CDK1 forms complexes with its cyclin partners (Cyclin A2 and Cyclin B1) and phosphorylates a variety of target substrates (over 75 have been identified in budding yeast), leading to nuclear envelope breakdown, chromosome condensation, mitotic spindle assembly and cell cycle progression. Derangement of p53 signaling or of DNA damage checkpoints indirectly leads to the deregulation of CDK1, and high cyclin B1 expression is generally associated with a more aggressive cancer phenotype. Diseases associated with CDK1 include Breast Cancer and Hepatocellular Carcinoma. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**



CDK2



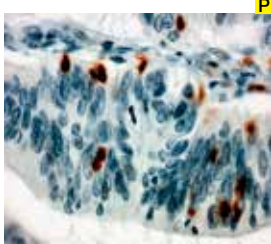
Tonsil stained with Anti-CDK2 using DAB chromogen

Clone: SP80
 Isotype: IgG
 Source: Rabbit
 Immunogen: Synthetic peptide corresponding to C-terminus of human CDK2 protein
 Specificity: Human CDK2
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN906-5M (ASR)
Ready-to-Use (Automated):	AN906-10M (RUO)
i6000™	AY906-YCD, AY906-50D (RUO)
Xmatrix®	
Concentrated:	NU906-UC, NU906-5UC
	NU906-1UC (ASR)
Recommended Positive Control:	FG-906N
Recommended Barrier Control:	FB-906N

CDK2 (Cyclin-dependent kinase 2), also known as cell division protein kinase 2, is a serine/threonine protein kinases that participate in cell cycle regulation and is especially critical during the G1 to S phase transition. CDK2 phosphorylates a large number of proteins involved in cell cycle progression (e.g. p27KIP1 and RB), DNA replication (e.g., replication factors A and C), histone synthesis (e.g., NPAT), centrosome duplication (e.g., nucleophosmin), among other processes. CDK2 is known to phosphorylate Akt on Ser477 and Thr479 promoting its activation at a specific stage during cell cycle progression (5). Recently, it has become clear that deregulation of CDK2 also occurs frequently in certain types of cancer. Increased CDK2 activity was shown to decrease risk in colon cancer, but elevates poor outcome in specific tumors, including low grade glioma, kidney, thyroid, adrenocortical and prostate cancer. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

CD103



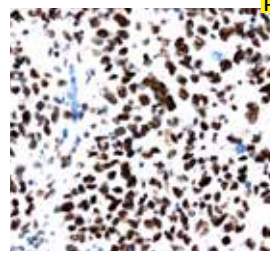
Colon carcinoma stained with anti-CD103 using DAB chromogen

Clone: EP206
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD103 protein
 Specificity: CD103
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN739-5M
Ready-to-Use (Automated):	AN739-10M
i6000™	AY739-YCD, AY739-50D
Xmatrix®	
Concentrated:	NU739-UC, NU739-5UC
	NU739-1UC
Recommended Positive Control:	FG-739N
Recommended Barrier Control:	FB-739N

CD103, also known as integrin alpha E (ITGAE), is an integrin protein that in humans is encoded by the ITGAE gene. CD103 is expressed on intraepithelial lymphocytes in mucosal areas, including lung and GI tract. In malignancies, CD103 is expressed on more than 95% of intraepithelial CD8+ cells and on 40% of mucosa-associated T cells, whereas less than 2% of resting blood lymphocytes are CD103-positive. In several malignant conditions, such as T-cell lymphomas and hairy cell leukemia, the cells express CD103. **For research use only, not for use in diagnostic procedures.**

CDK9



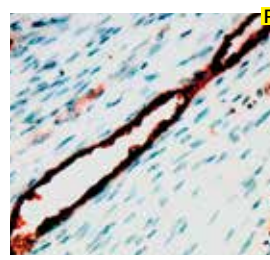
Cervical cancer stained with Anti-CDK9 using DAB chromogen

Clone: K.513.1
 Isotype: IgG
 Source: Rabbit
 Immunogen: Synthetic peptide corresponding to residues near the carboxy terminus of human CDK9
 Specificity: Human, mouse, rat, bovine, dog CDK9
 Localization: Nucleus
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN908-5M (ASR)
Ready-to-Use (Automated):	AN908-10M (RUO)
i6000™	AY908-YCD, AY908-50D (RUO)
Xmatrix®	
Concentrated:	NU908-UC, NU908-5UC
	NU908-1UC (ASR)
Recommended Positive Control:	FG-908N
Recommended Barrier Control:	FB-908N

CDK9 (Cyclin-dependent kinase 9), is a serine/threonine kinase that forms the catalytic core of the positive transcription elongation factor b (P-TEFb). This enzyme is critical for stimulating transcription elongation of most protein coding genes, including key developmental and stimulus-responsive genes, by RNA polymerase II (RNAPII). CDK9 is not a typical Cdc-2 like kinase and it does not act in cell cycle regulation processes; rather, it acts in differentiation processes. Activity of CDK9 is dependent on binding to a regulatory cyclin subunit (cyclin T1, T2a or T2b) and it is further regulated through association with other modulators like c-myc, NF-kB, androgen receptor (AR) and Brd4. Targeting CDK9 with small molecule inhibitors represents a viable strategy for the treatment of several diseases, indicated especially by the deregulation of CDK9 activity in cancers, cardiac hypertrophy, HIV infections and pathological inflammation. CDK9 inhibitors have demonstrated good antitumoral activity in vitro. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

CD105



Uterine blood vessels stained with Anti-CD105 using DAB chromogen

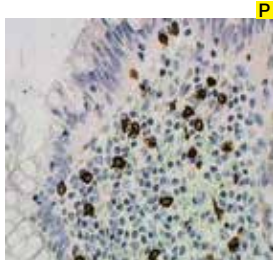
Clone: 4G11
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Prokaryotic recombinant protein corresponding to a region of the external domain of the CD105 glycoprotein.
 Specificity: CD105
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM441-5M
Ready-to-Use (Automated):	AM441-10M
i6000™	AX441-YCD, AX441-50D
Xmatrix®	
Concentrated:	MU441-UC, MU441-5UC
	MU441-1UC
Recommended Positive Control:	FG-441M
Recommended Barrier Control:	FB-441M

CD105 (endoglin) is a proliferation-associated and hypoxia-inducible protein abundantly expressed in angiogenic endothelial cells. It is a receptor for Transforming Growth Factor (TGF) -beta1 and -beta3 and modulates TGF-beta signaling by interacting with TGF-beta receptors I and/or II and hence driving tumor growth and metastasis. Endoglin (CD105) is a better marker to identify proliferating endothelium involved in tumor angiogenesis than pan-endothelial markers such as CD31, CD34 and Factor VIII etc. It can be used as a marker for microvessel density measurement and also in tumor imaging. This antibody stains membrane and cytoplasm of activated endothelial cells.



CD117



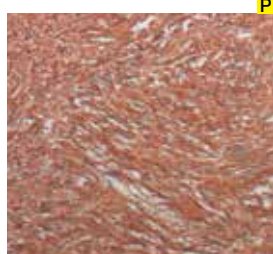
Clone: T595
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Recombinant protein corresponding to the three N-terminal C2-like extracellular domains.
 Specificity: c-Kit protein (CD117)
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Appendix tissue stained with Anti-CD117 using DAB chromogen

Ready-to-Use (Manual):	AM423-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM423-10M AX423-YCD, AX423-50D
Concentrated:	MU423-UC, MU423-5UC
Recommended Positive Control:	FG-423M
Recommended Barrier Control:	FB-423M

c-Kit (CD117) is a transmembrane, tyrosine kinase receptor and proto-oncogene product which is expressed on numerous diverse fetal and adult cells including hematopoietic cells, mast cells, melanocytes, germ cells, and the interstitial cells of Cajal. Its expression in tumors is also diverse.

CD117/c-Kit/SCF



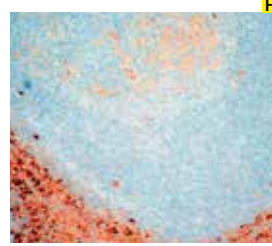
Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide from the cyto plasmic domain of human CD117 c-kit protein
 Specificity: Human CD117/c-Kit/SCF
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

GIST stained with anti-Human CD117/c-Kit/SCF using DAB chromogen

Ready-to-Use (Manual):	AR759-5R
Ready-to-Use (Automated): i6000™ Xmatrix®	AR759-10R AW759-YCD, AW759-50D
Concentrated:	PU759-UP, PU759-5UP
Recommended Positive Control:	FG-759P
Recommended Barrier Control:	FB-759P

CD117 is a cytokine receptor expressed on the surface of hematopoietic stem cells as well as other cell types. CD117 recognizes a protein of 145kDa, which is identified as CD117/p145 kit. This rabbit polyclonal antibody does not interfere with the binding of SCF to c-kit. It precipitates both the unoccupied as well as the occupied form of c-kit. The binding of the stem cell factor (SCF) to the c-kit-encoded receptor tyrosine kinase (Type III) stimulates a variety of biochemical responses that culminate in cellular proliferation, migration, or survival. C-kit plays an important role in hematopoiesis, melanogenesis, and gametogenesis.

CD138



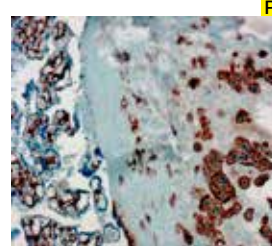
Clone: EP201
 Isotype: IgG
 Source: Rabbit
 Immunogen: Human CD138 protein, a member of the trans membrane heparin sulfate proteoglycan family, acts as an extra cellular matrix receptor
 Specificity: Human CD138
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Tonsil stained with anti-Human CD138 using DAB chromogen

Ready-to-Use (Manual):	AN837-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AN837-10M AY837-YCD, AY837-50D
Concentrated:	NU837-UC, NU837-5UC
Recommended Positive Control:	FG-837N
Recommended Barrier Control:	FB-837N

CD138, also known as Syndecan-1, is a member of the transmembrane heparan sulfate proteoglycan family, acts as an extracellular matrix receptor and is involved in many cellular functions, including cell-cell adhesion and cell-matrix adhesion. CD 138 expression is found in both hematopoietic and non-hematopoietic cells. In the hematopoietic system, CD138 labels plasma cells. It is an excellent marker for plasmacytic differentiation within the spectrum of hematologic malignancy. Among non-hematolymphoid cells, CD138 reactivity is observed in many types of epithelial cells and stoma cells in both normal and tumor tissues.

CD146



Clone: EP54
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in human CD146 protein
 Specificity: CD146 protein
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

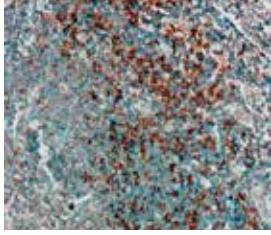
Placenta stained with anti-CD146 using DAB chromogen

Ready-to-Use (Manual):	AN716-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AN716-10M AY716-YCD, AY716-50D
Concentrated:	NU716-UC, NU716-5UC
Recommended Positive Control:	FG-716N
Recommended Barrier Control:	FB-716N

CD146 (cluster of differentiation 146) labels endothelial cells, smooth muscle cells, intermediate trophoblast, subpopulation of T cells, and peripheral neuronal cells. In tumor, CD146 is expressed on tumor cells derived from peripheral nerves system, melanoma and clear cell sarcoma. CD146 has been used as a marker for intermediate trophoblast. It has been reported that CD146 is useful in differentiation of mesothelioma (CD146 positive) and reactive mesothelium (CD146 negative). CD146 is associated with tumor progression and the development of metastasis in human malignant melanoma.



CD205 (LY75)



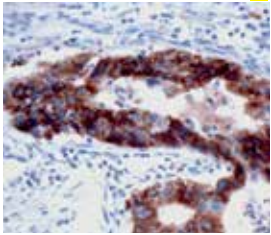
Tonsil stained with anti-CD205 using DAB chromogen

Clone: EP176
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human CD205 protein
 Specificity: CD205
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN737-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN737-10M
Xmatrx [®]	AY737-YCD, AY737-50D
Concentrated:	NU737-UC, NU737-5UC
Recommended Positive Control:	FG-737N
Recommended Barrier Control:	FB-737N

CD205 is predominantly expressed by the thymic cortical epithelium and by dendritic cells (DC), but can also be detected at low levels in T and B lymphocytes and several other epithelial cell types. CD205 is a novel thymic epithelial marker that is important for the positive selection process of thymocytes. It is a sensitive and specific marker for thymoma, while the sensitivity to thymic carcinoma is lower than CD5 and CD117. **For research use only, not for use in diagnostic procedures.**

CD227 (Mucin 1)



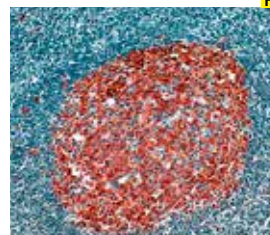
Mucinous adenocarcinoma stained with Anti-CD227 using DAB chromogen

Clone: VU-4H5
 Isotype: IgG1
 Source: Mouse
 Immunogen: 60mer tandem repeat of VTSAPDTRPAPGSTA-PPAHG, conjugated to BSA
 Specificity: CD227 (MUCIN 1)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM534-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM534-10M
Xmatrx [®]	AX534-YCD, AX534-50D
Concentrated:	MU534-UC, MU534-5UC
Recommended Positive Control:	FG-534M
Recommended Barrier Control:	FB-534M

Mucins are a family of high molecular weight, heavily glycosylated proteins (glycoconjugates) produced by many epithelial tissues in vertebrates. CD227, also known as mucin 1, is a breast cancer associated mucin encoded by the Muc-1 gene. CD227 is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. This protein is over expressed abundantly in >90% breast carcinomas and metastases.

CDw75 (B Cell)



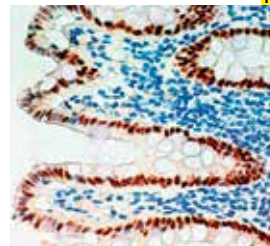
Tonsil stained with Anti-CDw75 using AEC chromogen

Clone: LN1
 Isotype: IgM
 Source: Mouse
 Immunogen: Nuclei from pokeweed mitogen-stimulated peripheral blood lymphocytes
 Specificity: CDw75 antigen
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR1 elegance
 Manual/i6000: HK546-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM152-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM152-10M
Xmatrx [®]	AX152-YCD, AX152-50D
Concentrated:	MU152-UC, MU152-5UC
	MU152-1UC
Recommended Positive Control:	FG-152M
Recommended Barrier Control:	FB-152M

CDw75 is proposed as the ligand for CD22 mediating B-cell to B-cell interaction. Clone LN1 recognizes a sialoantigen on cell membranes. On tissue sections, it causes a marked reaction with the B lymphocytes in germinal centers, but only a faint reaction with B lymphocytes of the mantle zone in lymphatic tissues. LN1 also reacts with various types of epithelial cells, including cells of the distal renal tubules, breast, bronchus, prostate, and erythrocytes. This antibody stains CDw75 antigen on cell membranes of B lymphocytes in the germinal centers, certain epithelial cells, including cells of the distal renal tubules, breast, bronchus and prostate.

CDX-2



Intestine tissue stained with Anti-CDX2 using DAB chromogen

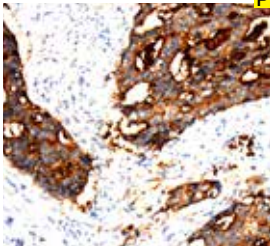
Clone: CDX2-88
 Isotype: IgG 1 Kappa
 Source: Mouse
 Immunogen: A Balb/c mouse was immunized with a full-length CDX2 recombinant protein. Stable hybridomas were produced by fusion of spleen cells with P2/0 myeloma cell.
 Specificity: CDX2 protein
 Localization: Nucleus
 Pre-treatment: AR Citra Plus/EZ-AR 2
 Manual/i6000: HK080-5K
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM392-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM392-10M
Xmatrx [®]	AX392-YCD, AX392-50D
Concentrated:	MU392A-UC, MU392A-5UC
	MU392A-1UC
Recommended Barrier Control:	FB-392M
Recommended Positive Control:	FG-392M

CDX2, a member of the caudal-related homeobox family, is an intestine-specific transcription factor that regulates both proliferation and differentiation in intestinal epithelial cells. It plays an important role in triggering cells towards the phenotype of differentiated villus enterocytes as well as in the maintenance of the phenotype. Clone CDX2-88 reacts with a conserved epitope of the 40kD CDX2 protein localized in the nucleus. It exclusively marks nuclei of colonic epithelial cells and colorectal cancers on formalin-fixed, paraffin-embedded tissue sections.



CEACAM1



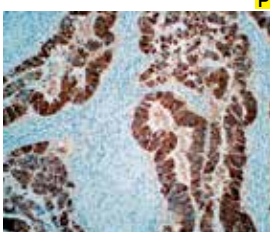
Colon cancer stained with Anti-CEACAM1 using DAB chromogen

Clone: Polyclonal
Isotype: IgG
Source: Rabbit
Immunogen: Recombinant fragment corresponding to a region within amino acids 1 and 232 of Human C-CAM1
Specificity: Human CEACAM1
Localization: Cell Membrane/ Cytoplasm
Pre-treatment: EZ-AR2 Elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR909-5R (ASR)
Ready-to-Use (Automated):	AR909-10R (RUO)
i6000™	AW909-YCD, AW909-50D (RUO)
Xmatrix®	
Concentrated:	PU909-UP, PU909-5UP
	PU909-1UP (ASR)
Recommended Positive Control:	FG-909P
Recommended Barrier Control:	FB-909P

CEACAM1 (Carcinoembryonic antigen-related cell adhesion molecule 1) also known as biliary glycoprotein and CD66a is a trans-membrane multifunctional cell adhesion molecule and a member of the immunoglobulin superfamily. CEACAM1 is broadly expressed in many epithelial, endothelial, and hematopoietic cells such as monocytes and natural killer cells and has been shown to play a role in multiple cellular activities including differentiation, angiogenesis, apoptosis, tumor suppression, metastasis, and the modulation of innate and adaptive immune responses. CEACAM1 is important to tumor development and altered CEACAM1 expression has been reported in many cancers including metastatic melanoma, osteosarcoma and lung cancer. Analyte Specific Reagent. Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.

CDX-2



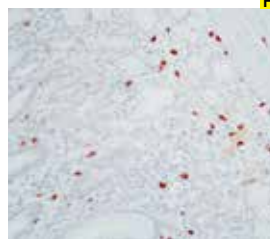
Tonsil stained with anti-Human CDX-2 using DAB chromogen

Clone: EP25
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues near the C-term of human CDX-2 protein.
Specificity: Human CDX-2
Localization: Nucleus
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK080-5K
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN777-5M
Ready-to-Use (Automated):	AN777-10M
i6000™	AY777-YCD, AY777-50D
Xmatrix®	
Concentrated:	NU777-UC, NU777-5UC
	NU777-1UC
Recommended Positive Control:	FG-777N
Recommended Barrier Control:	FB-777N

CDX-2 antibody is a homeobox gene that encodes an intestine-specific transcription factor. The CDX-2 protein is expressed in primary and metastatic colorectal carcinomas, intestinal metaplasia of the stomach and intestinal type gastric cancer. In human colorectal cancer, the expression of both CDX-2 and carbonic anhydrase 1, a gene regulated by CDX-2, is reduced or absent. CDX-2 is one of the important regulators in defining pathways for coordinate control of drug metabolism in the gastrointestinal tract.

c-Kit/CD117



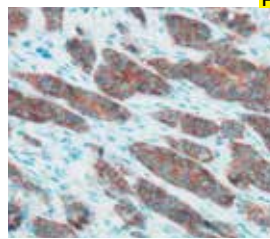
Stomach stained with anti-Human c-Kit/CD117 using DAB chromogen

Clone: EP10
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues in the C-terminus of human c-Kit/CD117 protein
Specificity: Human c-Kit/CD117
Localization: Membrane and cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN818-5M (ASR)
Ready-to-Use (Automated):	AN818-10M (RUO)
i6000™	AY818-YCD, AY818-50D (RUO)
Xmatrix®	
Concentrated:	NU818-UC, NU818-5UC
	NU818-1UC (ASR)
Recommended Positive Control:	FG-818N
Recommended Barrier Control:	FB-818N

CD117 is a proto-oncogene, meaning that overexpression or mutations of this protein can lead to cancer. Seminomas, a subtype of testicular germ cell tumors. Member of the Tyrosine Kinase Receptor (TKRs) and highly homologous to receptor PDF and CSF-1. Activation of c-Kit tyrosine kinase by SCF (Stem Cell factor) leads to autophosphorylation and association of c-Kit with substrate PI3K. CD117 is a marker for Mast cell and gastrointestinal stroma tumor. Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.

c-erbB-2 (Her2/neu)



Breast cancer stained with anti-Human c-erbB-2 using DAB chromogen

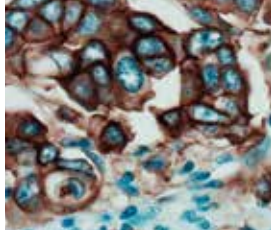
Clone: SP101
Isotype: IgG
Source: Rabbit
Immunogen: A recombinant protein encoding extracellular domain of human c-erbB-2
Specificity: Human c-erbB-2
Localization: Membrane and cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN752-5M
Ready-to-Use (Automated):	AN752-10M
i6000™	AY752-YCD, AY752-50D
Xmatrix®	
Concentrated:	NU752-UC, NU752-5UC
	NU752-1UC
Recommended Positive Control:	FG-752N
Recommended Barrier Control:	FB-752N

c-erbB-2 is a receptor tyrosine kinase of the c-erbB family. It is closely related in structure to the epidermal growth factor receptor. Amplification or over-expression of the erbB-2 gene occurs in approximately 15-30% of breast cancers. It is strongly associated with increased disease recurrence and a poor prognosis. Over-expression is also known to occur in ovarian, stomach, and aggressive forms of uterine cancer, such as uterine serous endometrial carcinoma. c-erbB-2 oncoprotein is detectable in a proportion of breast and other adenocarcinomas, as well as transitional cell carcinomas. For research use only. Not for use in diagnostic procedures.



c-erbB-2 (Her2/neu) P



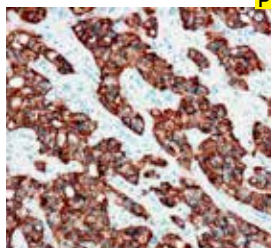
Breast cancer stained with anti-Human c-erbB-2 using DAB chromogen

Clone: SP3
 Isotype: IgG
 Source: Rabbit
 Immunogen: A recombinant protein encoding extracellular domain of human c-erbB-2
 Specificity: Human c-erbB-2
 Localization: Membrane and cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN753-5M
Ready-to-Use (Automated):	
i6000™	AN753-10M
Xmatrx®	AY753-YCD, AY753-50D
Concentrated:	NU753-UC, NU753-5UC
Recommended Positive Control:	FG-753N
Recommended Barrier Control:	FB-753N

c-erbB-2 is a receptor tyrosine kinase of the c-erbB family. It is closely related in structure to the epidermal growth factor receptor. Amplification or over-expression of the erbB-2 gene occurs in approximately 15-30% of breast cancers. It is strongly associated with increased disease recurrence and a poor prognosis. Over-expression is also known to occur in ovarian, stomach, and aggressive forms of uterine cancer, such as uterine serous endometrial carcinoma. c-erbB-2 oncoprotein is detectable in a proportion of breast and other adenocarcinomas, as well as transitional cell carcinomas. **For research use only. Not for use in diagnostic procedures.**

c-erbB-2 (HER-2/neu) P



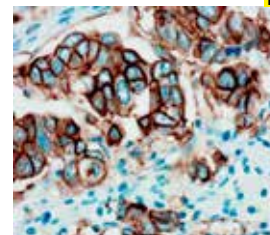
Breast carcinoma stained with Anti-Her2 using DAB Chromogen

Clone: CB11
 Isotype: IgG1
 Source: Mouse
 Immunogen: Synthetic peptide corresponding to a site on the internal domain of the c-erbB-2 Protein (HER-2/neu)
 Localization: Membrane and cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM134-5M (ASR)
Ready-to-Use (Automated):	
i6000™	AM134-10M (RUO)
Xmatrx®	AX134-YCD, AX134-50D (RUO)
Concentrated:	MU134-UC, MU134-5UC (ASR)
Recommended Positive Control:	FG-134M
Recommended Barrier Control:	FB-134M

The Her-2/neu (c-erbB-2) gene product is a 185 kD transmembrane glycoprotein associated with tyrosine kinase activity. The antibody CB11 is directed against the internal domain of this oncoprotein. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

c-erbB-2 (HER-2/neu) P



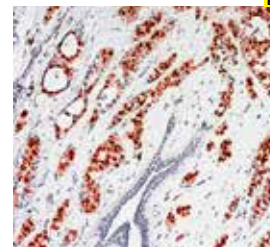
Breast stained with anti-Her2 using DAB chromogen

Clone: EP3
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues surrounding tyrosine 877 of human HER2
 Specificity: Her2
 Localization: Membrane and cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN726-5M (ASR)
Ready-to-Use (Automated):	
i6000™	AN726-10M (RUO)
Xmatrx®	AY726-YCD, AY726-50D (RUO)
Concentrated:	NU726-UC, NU726-5UC (ASR)
Recommended Positive Control:	FG-726N
Recommended Barrier Control:	FB-726N

HER2 (human epidermal growth factor receptor 2), also known as Neu, ErbB-2, CD340 (cluster of differentiation 340) or p185, is a protein that in humans is encoded by the ERBB2 gene. HER2 is a member of the epidermal growth factor receptor (EGFR/ErbB) family. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

c-erbB-3 (HER-3) P



Breast carcinoma stained with Anti-c-erbB-3 using DAB chromogen

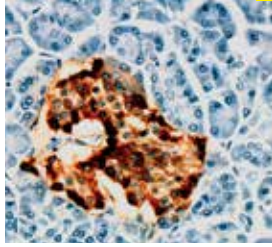
Clone: RTJ1/A2
 Isotype: IgM
 Source: Mouse
 Immunogen: Synthetic peptide from the cytoplasmic domain of the human c-erbB-3 protein
 Specificity: c-erbB-3 protein
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM319-5M
Ready-to-Use (Automated):	
i6000™	AM319-10M
Xmatrx®	AX319-YCD, AX319-50D
Concentrated:	MU319-UC, MU319-5UC
Recommended Positive Control:	FG-319M
Recommended Barrier Control:	FB-319M

The c-erbB-3 gene product is a 180 kD transmembrane glycoprotein showing tyrosine kinase activity. It belongs to a family of growth receptors that show structural similarity to Epidermal Growth Factor Receptor (EGFR) and the c-erbB-2 proteins. The c-erbB-3 protein is widely expressed in digestive, urinary and respiratory tracts, the circulatory systems, female and male reproductive system but not in hematopoietic system. C-erbB-3 protein has also been seen to be overexpressed in some tumors including those of the breast, stomach, pancreas, colon, and ovary. This antibody stains c-erbB-3 protein in membrane of positive cells.



Chromogranin A



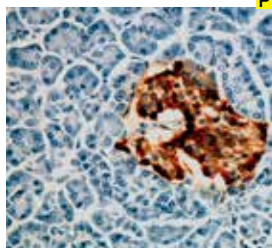
Pancreas tissue stained with Anti-Chromogranin using DAB chromogen

Clone: LK2H10
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Tissue from human pheochromocytoma
 Specificity: Secretory storage granules in endocrine cells
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM126-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM126-10M AX126-YCD, AX126-50D
Concentrated:	MU126-UC, MU126-5UC
Recommended Positive Control:	FG-126M
Recommended Barrier Control:	FB-126M

This antibody recognizes Chromogranin A (68 kD) and other related chromogranin polypeptides from human, monkey, and pig. Chromogranin is widely distributed and through immunohistochemistry, chromogranin has been demonstrated in several elements of the diffuse neuroendocrine system, including anterior pituitary, thyroid parafollicular C cells, parathyroid chief cells, pancreatic islet cells, intestinal enteroendocrine cells, and tumors derived from these cells. The measurement of Chromogranin A has become a valuable tool in the investigation of neuroendocrine neoplasia. This antibody recognizes Chromogranin A (68 kD) and other chromogranin polypeptides in cytoplasm of positive cells.

Chromogranin A



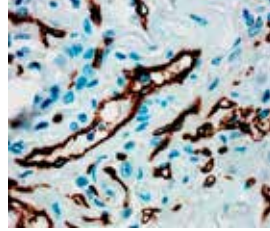
Pancreatic islet stained with Anti-Chromogranin A using DAB chromogen

Clone: PHE-5
 Isotype: IgG
 Source: Mouse
 Specificity: Chromogranin A
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM356-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM356-10M AX356-YCD, AX356-50D
Concentrated:	MU356-UC, MU356-5UC
Recommended Positive Control:	FG-356M
Recommended Barrier Control:	FB-356M

This antibody recognizes Chromogranin A (68 kD) and other related chromogranin polypeptides from human, monkey, and pig. Through immunohistochemistry, chromogranin has been demonstrated in several elements of the diffuse neuroendocrine system, including anterior pituitary, thyroid parafollicular C cells, parathyroid chief cells, pancreatic islet cells, intestinal enteroendocrine cells, and tumors derived from these cells. Chromogranin immunoreactivity was also seen in thymus, spleen, lymph nodes, fetal liver, neurons, the inner segment of rods and cones, the submandibular gland, and the central nervous system.

Claudin-5



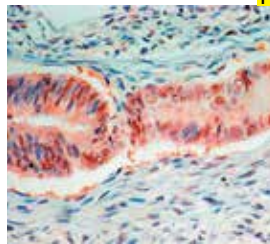
Lung squamous carcinoma stained with anti-Claudin 5 using DAB chromogen

Clone: EP224
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human Claudin-5 protein
 Specificity: Claudin-5 protein
 Localization: Cell junction/Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN718-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN718-10M AY718-YCD, AY718-50D
Concentrated:	NU718-UC, NU718-5UC
Recommended Positive Control:	FG-718N
Recommended Barrier Control:	FB-718N

Claudin-5 is a member of the claudin family. Mutations in Claudin-5 have been found in patients with velocardiofacial syndrome. Claudin-5 labels endothelial cells. It has been used as a marker for endothelial lesions. Claudin-5 is also found in bronchial and lung epithelial cells. In tumors, Claudin-5 expression has been found in lung adenocarcinoma and squamous carcinoma. In serous ovarian adenocarcinoma, increased Claudin-5 expression is associated with aggressive behavior.

c-myc Protein



Breast carcinoma stained with Anti-BCA-225 using AEC chromogen

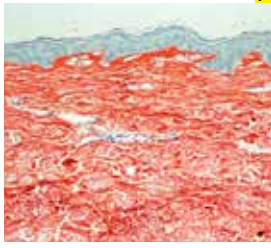
Clone: 9E10
 Isotype: IgG
 Source: Mouse
 Immunogen: Peptide AEEQKLISEEDL
 Specificity: c-myc Protein Antigen
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM318-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM318-10M AX318-YCD, AX318-50D
Concentrated:	MU318-UC, MU318-5UC MU318-1UC
Recommended Positive Control:	FG-318M
Recommended Barrier Control:	FB-318M

Monoclonal antibody 9E10 reacts with the AEEQKLISEEDL epitope of c-myc protein. The c-myc gene product has been shown, through molecular studies, to be an essential protein for replication of cellular DNA and for the enhancement of mRNA transcription. The activated expression of one of the proto-oncogenes, c-myc, seems to accompany abnormalities in the progression of various malignancies such as lung, breast and colon carcinomas as well as melanomas. The antibody stains c-myc protein in nucleus of positive cells.



Collagen III



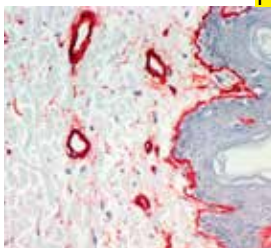
Skin tissue stained with Anti-collagen III using AEC chromogen

P	Clone:	HWD1.1
	Isotype:	IgG
	Source:	Mouse
	Immunogen:	Human collagen purified by High Performance Liquid Chromatography
	Specificity:	Collagen type III
	Localization:	ECM
	Pre-treatment:	EZ-AR2 elegance
	Manual/i6000:	HK547-XAK
	Xmatrix:	HX032-YCD

Ready-to-Use (Manual):	AM167-5M
Ready-to-Use (Automated):	
i6000™	AM167-10M
Xmatrix®	AX167-YCD, AX167-50D
Concentrated:	MU167-UC, MU167-5UC
Recommended Positive Control:	FG-167M
Recommended Barrier Control:	FB-167M

Collagen type III is a marker for interstitial connective tissue of the extracellular matrix. Collagen type III is diffusely present throughout the interstitial connective tissues making it a better marker than cellular fibronectin, which is more closely associated with basement membrane, and presence in extracellular matrix is minimal. In highly specialized vascular beds of spleen and glomeruli where basement membrane is prominent, little collagen type III is detected, whereas fibronectin is abundant. This antibody does not react with collagens type I, II, IV, V, VI, or VII. This antibody stains positive for Collagen type III in interstitial connective tissue but not on basement membranes.

Collagen IV



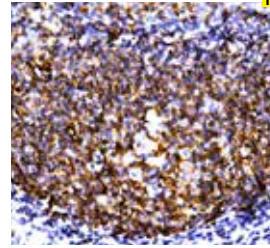
Skin stained with Anti-Collagen IV using AEC chromogen

P	Clone:	COL-94
	Isotype:	IgG1
	Source:	Mouse
	Immunogen:	Human Collagen IV
	Specificity:	Type IV collagen
	Localization:	Basal Laminae/ Cytoplasm
	Pre-treatment:	EZ-AR2 elegance
	Manual/i6000:	HK547-XAK
	Xmatrix:	HX032-YCD

Ready-to-Use (Manual):	AM379-5M
Ready-to-Use (Automated):	
i6000™	AM379-10M
Xmatrix®	AX379-YCD, AX379-50D
Concentrated:	MU379-UC, MU379-5UC
Recommended Positive Control:	FG-379M
Recommended Barrier Control:	FB-379M

This antibody reacts with Collagen IV and does not cross-react with other collagen types. It does not cross-react with human vitronectin, fibronectin or chondroitin sulfate A, B, or C. The positive or negative demonstration of basal lamina using immunostaining helps to distinguish some types of benign lesions from malignant tumors such as tubular carcinoma of the breast. Schwannomas and leiomyomas and their well differentiated malignant counterparts usually immunoreact in a characteristic fashion to the monoclonal antibody for type IV Collagen. The vascular nature of neoplasms such as hemangiopericytoma and epithelioid hemangio-endothelioma can be revealed by type IV collagen with more reliability than other non-specific stains. This monoclonal antibody stains human Collagen IV in basal laminae.

CSF1R



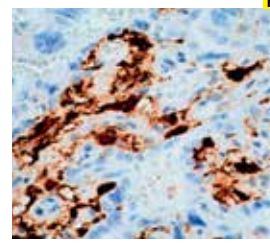
Tonsil stained with Anti-CSF-1R using DAB chromogen

P	Clone:	SP211
	Isotype:	IgG
	Source:	Rabbit
	Immunogen:	Synthetic peptide from human CSF-1R protein
	Specificity:	-
	Localization:	Cell Membrane
	Pre-treatment:	EZ-AR2 Elegance
	Manual/i6000:	HK547-XAK
	Xmatrix:	HX032-YCD

Ready-to-Use (Manual):	AN914-5M (ASR)
Ready-to-Use (Automated):	
i6000™	AN914-10M (RUO)
Xmatrix®	AY914-YCD, AY914-50D (RUO)
Concentrated:	NU914-UC, NU914-5UC
	NU914-1UC (ASR)
Recommended Positive Control:	FG-914N
Recommended Barrier Control:	FB-914N

CSF1R (Colony stimulating factor 1 receptor), also known as M-CSFR (macrophage colony-stimulating factor receptor) and CD115, is a receptor for CSF1 (colony stimulating factor 1), a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Activated CSF1R promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes which can further influence the development of tumors. Mutations in the CSF1R gene have been associated with a predisposition to myeloid malignancy and overexpression of CSF1R has been confirmed in various malignant tumors. Blockade of CSF1R enables the therapeutic targeting of tumor-associated macrophages (TAM) in cancer patients. Various CSF-1R inhibitors, mAbs (e.g. emactuzumab), and tyrosine kinase inhibitors are currently evaluated in early clinical trials. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

Coagulation Factor XIIIa



Placenta stained with anti-Human Coagulation Factor XIIIa using DAB chromogen

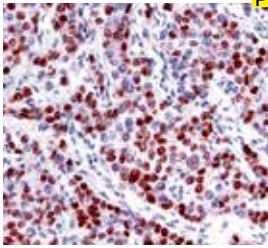
P	Clone:	SP196
	Isotype:	IgG
	Source:	Rabbit
	Immunogen:	A synthetic peptide near the N-terminus of human coagulation factor XIIIa protein
	Specificity:	Human Coagulation Factor XIIIa
	Localization:	Cytoplasm
	Pre-treatment:	EZ-AR2 elegance
	Manual/i6000:	HK547-XAK
	Xmatrix:	HX032-YCD

Ready-to-Use (Manual):	AN755-5M
Ready-to-Use (Automated):	
i6000™	AN755-10M
Xmatrix®	AY755-YCD, AY755-50D
Concentrated:	NU755-UC, NU755-5UC
	NU755-1UC
Recommended Positive Control:	FG-755N
Recommended Barrier Control:	FB-755N

Coagulation Factor XIIIa, also known as fibrinolygase and fibrin-stabilizing factor, is the last enzyme in the blood coagulation cascade. It is a Ca²⁺-dependent transglutaminase in the stabilization of the fibrin clot. Factor XIIIa is expressed in some dendritic cells of placenta, skin, bladder, lung, and diseases with rich dendritic cells such as dermatofibroma, psoriasis, and Hodgkin's lymphoma.



Cyclin D1



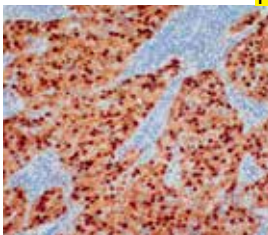
Breast cancer tissue stained with Anti-Cyclin D1 using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: Synthetic peptide from C-terminus of Cyclin D1
 Specificity: Cyclin D1
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR447-10R
Ready-to-Use (Automated):	
<i>i6000</i> TM	AR447-10R
Xmatrix [®]	AW447-YCD, AW447-50D
Concentrated:	PU447-UP, PU447-5UP
Recommended Positive Control:	FG-447P
Recommended Barrier Control:	FB-447P

Cyclins are a family of key regulatory proteins of the cell cycle. Cyclin D1 controls the transition from G1-phase to S-phase of the cell cycle. In addition to breast carcinoma, overexpression is also seen in mantle cell lymphoma, laryngeal epithelial lesions, bladder urothelial tumors, and gastric carcinoma.

Cyclin D1



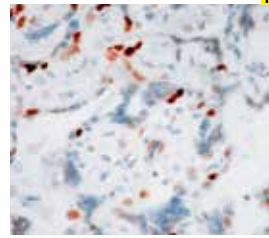
Breast cancer stained with anti-Human Cyclin D1 using DAB chromogen

Clone: EP12
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues near the C-terminus of human Cyclin D1 protein.
 Specificity: Human Cyclin D1
 Localization: Nuclear/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN815-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN815-10M
Xmatrix [®]	AY815-YCD, AY815-50D
Concentrated:	NU815-UC, NU815-5UC
Recommended Positive Control:	FG-815N
Recommended Barrier Control:	FB-815N

Cyclin D1 belongs to the Cyclin D family. Cyclin D1 is required for the cell cycle G1/S transition. Amplification or overexpression of cyclin D1 plays a pivotal role in the development of various human cancers including breast cancer, colon cancer, melanoma, prostate cancer and lymphoma. It is useful to differentiate mantle cell lymphoma from small cleaved cell lymphoma. Rabbit monoclonal antibodies to cyclin D1 showed the highest sensitivity to detect this antigen in formalin fixed paraffin embedded tissue as compared to several other clones.

Cyclin E1



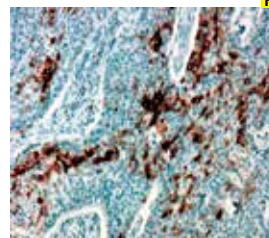
Placenta stained with anti-Human CyclinE1 using DAB chromogen

Clone: EP126
 Isotype: IgG
 Source: Rabbit
 Immunogen: Human CyclinE1 protein
 Specificity: Human CyclinE1
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN854-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN854-10M
Xmatrix [®]	AY854-YCD, AY854-50D
Concentrated:	NU854-UC, NU854-5UC
Recommended Positive Control:	FG-854N
Recommended Barrier Control:	FB-854N

Cyclin E1 is a member of the cyclin E family that can associate with and activate cyclin-dependent kinase Cdk2. Expression of cyclin E1 is essential for the control of the cell cycle at the late G1 and early S phase. Ubiquitination by the Cul-3 pathway and Fbw7 regulates cyclin E1 levels and is critically important in normal cells. In normal cells, cyclinE1 protein expression is tightly controlled through a combination of transcriptional and proteolytic regulatory processes. However, in many types of human tumors, cyclin E1 expression is frequently dysregulated, including overexpression, non-periodic expression relative to cell division, and generation of low molecular weight (LMW) derivatives. Several studies have consistently demonstrated that Cyclin E1 is associated with disease progression or patient survival in various malignancies including carcinomas of the breast, bladder, colon, and ovary. A recent study indicated that cyclin E amplification/overexpression is responsible for trastuzumab resistance in HER2 positive breast cancer patients.

Cytokeratin 4



Esophagus stained with anti-CK4 using DAB chromogen

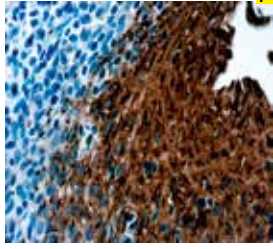
Clone: EP4
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the C-terminus of human CK4 protein
 Specificity: CK4
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN717-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN717-10M
Xmatrix [®]	AY717-YCD, AY717-50D
Concentrated:	NU717-UC, NU717-5UC
Recommended Positive Control:	FG-717N
Recommended Barrier Control:	FB-717N

Cytokeratin 4 (CK4) is a 59 kDa intermediate filament protein associated with cytokeratin 13. It is expressed in suprabasal cells of non-keratinized stratified squamous epithelium. A mutation in the CK4 gene causes white sponge nevus. A decreased expression of CK4 is associated with head and neck squamous carcinoma. It is helpful in differentiation of squamous cell carcinoma of esophagus origin from thyroid origin.



Cytokeratin 4



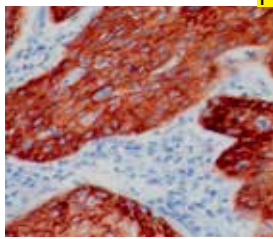
Cytokeratin 4 positivity in Tonsil stained using DAB Chromogen

Clone: 6B10
 Isotype: IgG1
 Source: Mouse
 Immunogen: Cytokeratin 4
 Specificity: Cytokeratin 4
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM705-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM705-10M AX705-YCD, AX705-50D
Concentrated:	MU705-UC, MU705-5UC
Recommended Positive Control:	FG-705M
Recommended Barrier Control:	FB-705M

Cytokeratin 4 is a 59 kD cytokeratin intermediate filament protein. It is found in non-complying squamous epithelium such as that of the superficial and intermediate epithelial cells of the esophagus, ectocervix, tongue, vagina, larynx, pharynx, epiglottis and anus, as well as the superficial cells of the cornea. Cytokeratin 4 is also expressed in the superbasal cells of urinary bladder, transitional epithelium in single cells and cell groups of sweat glands, prostatic ducts and in cylindrical, ciliated bronchial epithelial cells.

Cytokeratin 5



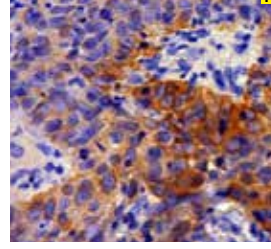
Cervical cancer stained with anti-Human Cytokeratin 5 using DAB chromogen

Clone: EP42
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the C-terminus of human Cytokeratin 5 protein
 Specificity: Human Cytokeratin 5
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AN853-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN853-10M AY853-YCD, AY853-50D
Concentrated:	NU853-UC, NU853-5UC NU853-1UC
Recommended Positive Control:	FG-853N
Recommended Barrier Control:	FB-853N

The mitotically active basal layers of most stratified squamous epithelia express 10% to 30% of their total protein as keratin. The two keratins specifically expressed in these cells are the type II keratin CK5 and its corresponding partner, type I keratin CK14, both of which are essential for the formation of 8-nm filaments. CK5 and calretinin have been useful in different studies as immunohistochemical markers suggestive of mesothelioma, and their expression is analyzed for the histological differential diagnosis with adenocarcinomas, especially when confronting with metastatic tumors of unknown origin. CK5 labels myoepithelial cells of breast and prostate basal cells. A cocktail of CK5, CK14 and p63, has been used as sensitive and specific basal cell marker of basal-like phenotype of breast carcinoma and to differentiate normal and prostate cancer. Loss-of-function mutations in the keratin 5 gene (KRT5) affected family members and in six unrelated patients with Dowling-Degos disease (DDD), an autosomal dominant genodermatosis.

Cytokeratin 5 & 6



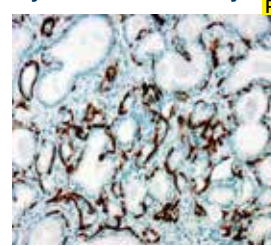
Cervical cancer stained with Anti-Cytokeratin 5&6 using DAB chromogen

Clone: EP24 & EP67
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the N terminus of human Cytokeratin 5&6
 Specificity: Human Cytokeratins 5 & 6
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN892-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN892-10M AY892-YCD, AY892-50D
Concentrated:	NIL
Recommended Positive Control:	FG-892N
Recommended Barrier Control:	FB-892N

Cytokeratins are intermediate filament proteins expressed in cytoplasm of epithelial cells. The mitotically active basal layers of most stratified squamous epithelia express 10% to 30% of their total protein as keratin. The two keratins specifically type II keratin CK5 and type II CK6, which essentially form 8-nm filaments. CK5 is a useful immunohistochemical marker in different studies of mesothelioma, and the expression is key tool for the histological differential diagnosis with adenocarcinomas, especially when confronting with metastatic tumors of unknown origin. CK5 labels myoepithelial cells of breast and prostate basal cells.

Cytokeratin 5 + Cytokeratin 14



Prostate stained with anti-CK5&14 using DAB chromogen

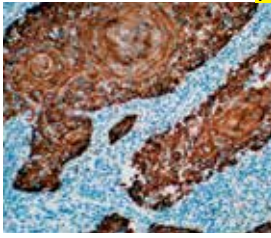
Clone: EP24 + EP61
 Isotype: IgG
 Source: Rabbit
 Immunogen: CK5: Synthetic peptide corresponding to residues near the C-terminus of human CK-5 protein CK14: A synthetic peptide corresponding to residues near the C-terminus of human CK14 protein
 Specificity: Cytokeratin 5 & 14
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AN730-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN730-10M AY730-YCD, AY730-50D
Concentrated:	NU730-UC, NU730-5UC NU730-1UC
Recommended Positive Control:	FG-730N
Recommended Barrier Control:	FB-730N

CK5 labels myoepithelial cells of breast and prostate basal cells. CK5 and calretinin have been useful in mesothelioma and differentiation of adenocarcinomas, especially when facing metastatic tumors of unknown origin. Cytokeratin 14 (CK14) is a 50-kDa keratin expressed in abundance in stratified epithelial, epidermal, basal, mesothelial, and myoepithelial cells in various tissues including breast and prostate. Cytokeratin 5/14-positive breast cancers are true basal phenotype confined to BRCA1 tumors. Along with p63 and CK5, the CK14 antibody has been a useful marker for cells with basal, squamous and myoepithelial differentiation. **For research use only, not for use in diagnostic procedures.**



Cytokeratin 5



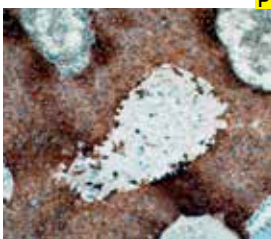
Clone: EP24
Isotype: IgG
Source: Rabbit
Immunogen: Residues near the C-term of human CK-5 protein.
Specificity: Human CK-5
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Cervical cancer stained with anti-Human CK-5 using DAB chromogen

Ready-to-Use (Manual):	AN847-5M
Ready-to-Use (Automated):	
i6000™	AN847-10M
Xmatrix®	AY847-YCD, AY847-50D
Concentrated:	NU847-UC, NU847-5UC
Recommended Positive Control:	FG-847N
Recommended Barrier Control:	FB-847N

The mitotically active basal layers of most stratified squamous epithelia express 10% to 30% of their total protein as keratin. The two keratins specifically expressed in these cells are the type II keratin CK5 and its corresponding partner, type I keratin CK14, both of which are essential for the formation of 8-nm filaments. CK5 and calretinin have been useful in different studies as immunohistochemical markers suggestive of mesothelioma, and their expression is analyzed for the histological differential diagnosis with adenocarcinomas, especially when confronting with metastatic tumors of unknown origin. CK5 labels myoepithelial cells of breast and prostate basal cells. A cocktail of CK5, CK14 and p63, has been used as sensitive and specific basal cell marker of basal-like phenotype of breast carcinoma and to differentiate normal and prostate cancer. Loss-of-function mutations in the keratin 5 gene (KRT5) affected family members and in six unrelated patients with Dowling-Degos disease (DDD), an autosomal dominant genodermatosis.

Cytokeratin 6



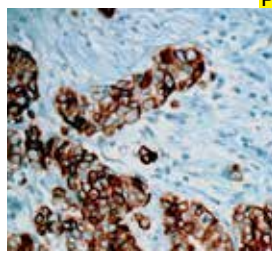
Clone: EP67
Isotype: IgG
Source: Rabbit
Immunogen: Residues of human Cytokeratin 6 protein
Specificity: Human Cytokeratin 6
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Cervical cancer tissue stained with anti-Human Cytokeratin 6 using DAB chromogen

Ready-to-Use (Manual):	AN845-5M
Ready-to-Use (Automated):	
i6000™	AN845-10M
Xmatrix®	AY845-YCD, AY845-50D
Concentrated:	NU845-UC, NU845-5UC
Recommended Positive Control:	FG-845N
Recommended Barrier Control:	FB-845N

The human type II Cytokeratin 6 (CK6; 56 kDa) is well known for its strong induction in stratified epithelia that feature an enhanced cell proliferation rate or abnormal differentiation during wound healing, in several diseases (e.g. psoriasis, actinic keratosis) and in cancer. CK6 is expressed on stratified epithelia including oral mucosa, esophagus, basal layer of epidermis, the outer root sheath of hair follicles, and in glandular epithelia. CK6 is a marker of hyperproliferative and activated keratinocytes found in psoriasis. CK6 paired with CK5 is useful to differentiate mesothelioma (positive) from lung carcinoma (negative) or metastatic carcinoma (negative) in the pleura. CK5/6 has also been used to distinguish usual ductal hyperplasia of the breast (strong staining) from solid papillary DCIS (negative).

Cytokeratin 7



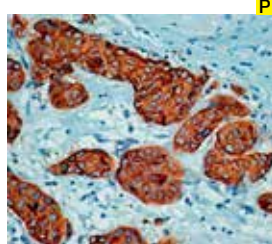
Clone: OV-TL12/30
Isotype: IgG1Kappa
Source: Mouse
Immunogen: Ovarian carcinoma cells
Specificity: Cytokeratin 7
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Breast Carcinoma stained with Anti-Cytokeratin7 using DAB chromogen

Ready-to-Use (Manual):	AM255-5M
Ready-to-Use (Automated):	
i6000™	AM255-10M
Xmatrix®	AX255-YCD, AX255-50D
Concentrated:	MU255-UC, MU255-5UC
Recommended Positive Control:	FG-255M
Recommended Barrier Control:	FB-255M

Cytokeratin 7 is a 54 kD marker of simple epithelium. Antibody to Cytokeratin 7 strongly stains all cell layers of the urinary bladder transitional epithelium. However, Cytokeratin 7 is absent from gastrointestinal epithelium, hepatocytes, proximal and distal tubules of the kidney, and myoepithelium, and also cannot be detected in the stratified epithelia of the skin, tongue, esophagus, or cervix. Cytokeratin 7 recognizes specific subtypes of adenocarcinomas and can be used to differentiate between Cytokeratin 7-positive tissues such as ovarian carcinomas and transitional cell carcinomas and Cytokeratin 7-negative tissues such as carcinomas of the gastrointestinal tract and prostate cancers.

Cytokeratin 7 & 8



Clone: OV-TL12/30 & C51
Isotype: IgG1
Source: Mouse
Immunogen: Ovarian carcinoma cells & MCF-7 cells
Specificity: Cytokeratin 7 & 8
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

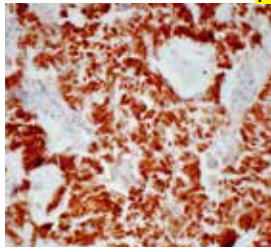
Breast carcinoma stained with Anti-Cytokeratin 7&8 using DAB chromogen

Ready-to-Use (Manual):	AM587-5M
Ready-to-Use (Automated):	
i6000™	AM587-10M
Xmatrix®	AX587-YCD, AX587-50D
Concentrated:	MU587-UC, MU587-5UC
Recommended Positive Control:	FG-587M
Recommended Barrier Control:	FB-587M

Cytokeratins 7 and 8 are two closely related type II cytokeratins characteristic of simple epithelia. Cytokeratin 7 is less widespread than cytokeratin 8 and is expressed in sebaceous and sweat glands and some cells of the inner hair root sheath. Cytokeratin 8 is primarily found in the non squamous epithelia. Cytokeratin 7 is usually present in adenocarcinomas of lung, breast, endometrioid tumors, transitional cell carcinoma of the bladder. The combination of cytokeratin 7 and 8 is a useful marker for differentiating adenocarcinomas and ductal carcinomas from squamous cell carcinomas.



Cytokeratin 8



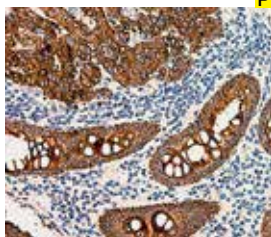
Breast Carcinoma stained with Anti-Cytokeratin8 using DAB chromogen

Clone: C51
Isotype: IgG1
Source: Mouse
Immunogen: A cytoskeletal preparation of MCF-7 cells
Specificity: Cytokeratin 8
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM142-5M
Ready-to-Use (Automated):	
i6000™	AM142-10M
Xmatrx®	AX142-YCD, AX142-50D
Concentrated:	MU142-UC, MU142-5UC
Recommended Positive Control:	FG-142M
Recommended Barrier Control:	FB-142M

Cytokeratin 8 (52 kD) and 18 (45 kD) comprise a Cytokeratin pair as markers for simple epithelia. In most situations, Cytokeratin 8 exists in tissues together with Cytokeratin 18, but there are exceptions among some normal and abnormal epithelial cells. Therefore, it is useful to use both Cytokeratin 8 and Cytokeratin 18 in combination with other anti Cytokeratin antibody monoclonals when studying cyto keratin expression patterns. Clone C-51 is designed for the specific localization of Cytokeratin 8 and does not cross-react with human cyto keratin numbers 7, 17, 18, or 19. This antibody stains Cytokeratin 8 in cytoplasm of positive epithelial cells.

Cytokeratins 8 & 18



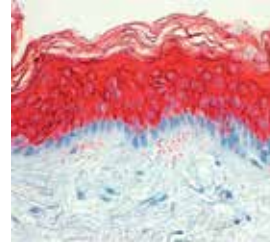
Colon carcinoma stained with Anti-Cytokeratin 8 & 18 using DAB chromogen

Clone: 5D3
Isotype: IgG1
Source: Mouse
Immunogen: Cytokeratins from human breast carcinoma cell line MCF-7
Specificity: Cytokeratins 8 and 18
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM131-5M
Ready-to-Use (Automated):	
i6000™	AM131-10M
Xmatrx®	AX131-YCD, AX131-50D
Concentrated:	MU131-UC, MU131-5UC
Recommended Positive Control:	FG-131M
Recommended Barrier Control:	FB-131M

Carcinomas may be classified precisely by the analysis of their keratin patterns. Clone 5D3 recognizes an epitope restricted to a few members of the cyto keratin subclasses, specifically Cytokeratins 8 and 18. This antibody reacts with all simple epithelia including glandular epithelium and ciliated pseudostratified columnar epithelium localized in thyroid, female breast, gastrointestinal and respiratory tract. 5D3 may be a useful marker for demonstrating columnar cell differentiation when studying biphasic differentiation of basal cells of respiratory or intermediate epithelium.

Cytokeratin 10



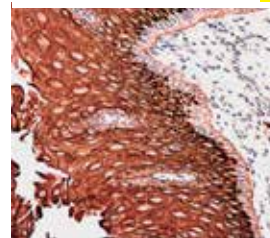
Skin stained with Anti-Cytokeratin 10 using DAB chromogen

Clone: DEK-10
Isotype: IgG1
Source: Mouse
Immunogen: Human epidermal keratin isolated by high salt extraction
Specificity: Cytokeratin 10
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM201-5M
Ready-to-Use (Automated):	
i6000™	AM201-10M
Xmatrx®	AX201-YCD, AX201-50D
Concentrated:	MU201-UC, MU201-5UC
Recommended Positive Control:	FG-201M
Recommended Barrier Control:	FB-201M

Cytokeratins 1 and 10 are expressed only in suprabasal layers, and their expression increases with epidermal maturation. In terminally differentiated keratinocytes of the stratum corneum, Cytokeratins 1 and 10 are regarded as markers for orthokeratinization. Keratinizing areas expressing Cytokeratin 10 have been demonstrated in various well differentiated squamous cell carcinomas derived from epidermis as well as from various internal sites of stratified epithelia. This antibody stains cytoplasm in epithelial cells of the stratum corneum.

Cytokeratin 13



Suprabasal cells in esophagus stained with Anti-Cytokeratin 13 using DAB chromogen

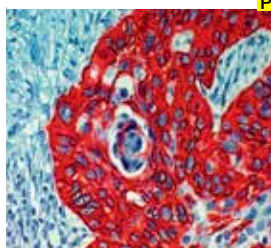
Clone: AE8
Isotype: IgG
Source: Mouse
Immunogen: Human epidermal keratin
Specificity: Cytokeratin 13
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM132-5M
Ready-to-Use (Automated):	
i6000™	AM132-10M
Xmatrx®	AX132-YCD, AX132-50D
Recommended Positive Control:	FG-132M
Recommended Barrier Control:	FB-132M

Cytokeratins 4/13 are markers for stratified squamous epithelia in internal organs including esophagus and tongue. This antibody is a reliable marker for squamous metaplasia found in respiratory tissue and prostate gland. Squamous metaplasia in the respiratory tract and in some other human organs may be associated with a precancerous condition. This 51 kD Cytokeratin 13, which is expressed in internal non-keratinized stratified squamous epithelia, and its frequently co-expressed partner, the basic 59 kD Cytokeratin 4, may be regarded as markers for esophageal-type differentiation. This antibody stains most cytoplasm in stratified squamous epithelium (except skin epidermis).



Cytokeratin 14



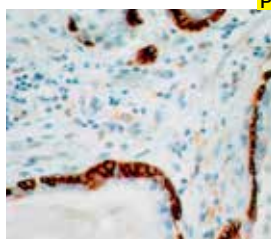
Squamous cell carcinoma tissue stained with Anti-Cytokeratin 14 using AEC chromogen

Clone: LL002
Isotype: IgG1 Kappa
Source: Mouse
Immunogen: Thyroglobulin conjugated synthetic peptide representing the C-terminal (last 15 residues) of human cytokeratin 14
Specificity: Cytokeratin 14
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM146-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM146-10M AX146-YCD, AX146-50D
Concentrated:	MU146-UC, MU146-5UC
Recommended Positive Control:	FG-146M
Recommended Barrier Control:	FB-146M

Cytokeratin 14 (molecular weight 50 kD), an acidic (Type I) cytokeratin protein, is one of the cytokeratin pairs (50/ 58 kD) that distinguishes stratified epithelial cell types from simple epithelial types. Cytokeratin 14 is homogeneously expressed in all cells of the keratinizing squamous epithelium and is confined to the basal and parabasal cells in the nonkeratinizing squamous epithelium of the normal adult urinary tract. The monoclonal antibody to Cytokeratin 14 may be helpful in distinguishing the cell types of the human mammary gland, thus it may also be used to study histogenesis of breast carcinoma. This antibody stains Cytokeratin 14 in cytoplasm of epithelial cells.

Cytokeratin 14



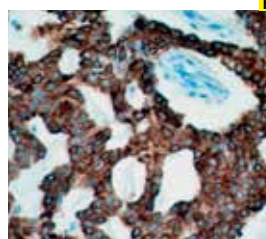
Prostate tissue stained with anti-Human Cytokeratin 14 using DAB chromogen

Clone: EP61
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues near the C-terminus of human Cytokeratin 14 protein.
Specificity: Human Cytokeratin 14
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AN831-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN831-10M AY831-YCD, AY831-50D
Concentrated:	NU831-UC, NU831-5UC NU831-1UC
Recommended Positive Control:	FG-831N
Recommended Barrier Control:	FB-831N

Keratins are cytoplasmic intermediate filament proteins expressed by epithelial cells. The mitotically active basal layers of most stratified squamous epithelia express 10% to 30% of their total protein as keratin. Cytokeratin 14 (CK14) is a 50-kDa keratin expressed in abundance in stratified epithelial cells, epidermal cells, basal cells, mesothelial cells, and myoepithelial cells in various tissues including breast and prostate. CK14 is helpful in the identification of breast cancer with basal phenotype.

Cytokeratin 15



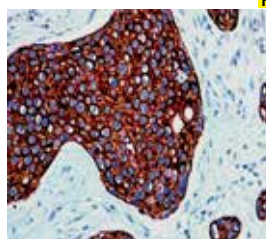
Squamous cancer tissue stained with anti-Human Cytokeratin 15 using DAB chromogen

Clone: EP14
Isotype: IgG
Source: Rabbit
Immunogen: Human Cytokeratin 15 protein
Specificity: Human Cytokeratin 15
Localization: -
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN855-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN855-10M AY855-YCD, AY855-50D NU855-UC, NU855-5UC NU855-1UC
Concentrated:	
Recommended Positive Control:	FG-855N
Recommended Barrier Control:	FB-855N

Cytokeratin 15 (CK15) is involved in the development of stratified epithelia from one-layered polar epithelia and continues to be expressed in several adult epithelial tissues. It labels the basal keratinocytes of stratified tissues, including the fetal epidermis and fetal nail. Although CK15 in normal hair follicles was virtually absent from hair bulbs, it was expressed by a subset of keratinocytes in the outer root sheath. In human conjunctival epithelium, strong expression of CK15 was observed in basal cells, whereas Cytokeratin 19 was expressed in both basal and suprabasal layers. CK15 may be used to differentiate primary from metastatic skin cancer. It may be a useful stem cell marker for hair follicle and breast epithelium.

Cytokeratin 17



Squamous Cell carcinoma stained with Anti-CK17 using DAB chromogen

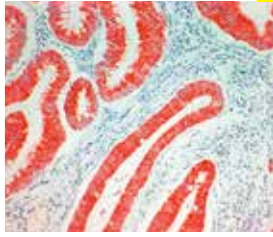
Clone: E27
Isotype: IgG
Source: Mouse
Immunogen: Recombinant human cytokeratin 17
Specificity: Cytokeratin 17
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM572-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM572-10M AX572-YCD, AX572-50D
Concentrated:	MU572-UC, MU572-5UC
Recommended Positive Control:	FG-572M
Recommended Barrier Control:	FB-572M

Cytokeratin 17 is 46 kD intermediate filament found in simple epithelia sometimes in association with Cytokeratin 7. This antibody has been used to distinguish cervical immature squamous metaplasia from high grade cervical intraepithelial neoplasia (CIN III). Anti-CK17 also labels myoepithelial cells in the benign breast tissue. CK17 labelling of breast carcinoma cells (so-called basal phenotype) has been associated with a poor prognosis.



Cytokeratin 18



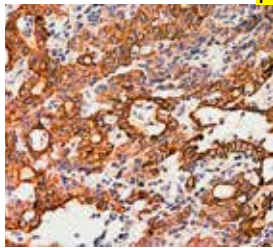
Adenocarcinoma stained with Anti-CK18 using AEC chromogen

Clone: DC-10
Isotype: IgG1
Source: Mouse
Immunogen: A cytoskeletal preparation of HeLa cells
Specificity: Cytokeratin 18
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000 HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM143-5M
Ready-to-Use (Automated):	
i6000™	AM143-10M
Xmatrix®	AX143-YCD, AX143-50D
Concentrated:	MU143-UC, MU143-5UC
Recommended Positive Control:	FG-143M
Recommended Barrier Control:	FB-143M

Cytokeratins 8 (52 kD) and 18 (45 kD) comprise a cytokeratin pair as markers for simple epithelia. The monoclonal antibodies specific for cytokeratin 18 stain all carcinomas derived from simple epithelia but do not stain well-differentiated squamous cell carcinoma. It is useful to use monoclonal antibodies to Cytokeratins 8 and 18 in combination with other anti-cytokeratin monoclonal antibodies when studying cytokeratin expression patterns. This antibody stains Cytokeratin 18 in cytoplasm of epithelial cells.

Cytokeratin 19



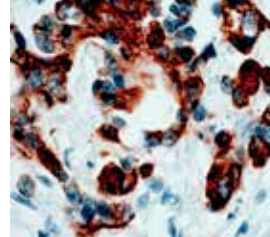
Colon carcinoma stained with Anti-Cytokeratin 19 using DAB chromogen

Clone: RCK108
Isotype: IgG1 Kappa
Source: Mouse
Immunogen: Total cell extract from human bladder cancer cell line
Specificity: Cytokeratin 19
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM246-5M
Ready-to-Use (Automated):	
i6000™	AM246-10M
Xmatrix®	AX246-YCD, AX246-50D
Concentrated:	MU246-UC, MU246-5UC
Recommended Positive Control:	FG-246M
Recommended Barrier Control:	FB-246M

Cytokeratin 19 (molecular mass 40 kD) is a marker of simple epithelia. Cytokeratin 19 has been found in mesothelial and mesothelioma cells, ovarian cysts, cystadenomas, and ovarian carcinomas, in adenocarcinomas of the lung and in tumor cells of pulmonary metastases, in the ductal cells of normal pancreas and in pancreatic cancers. It has been shown to be present in the basal layer of non-keratinizing stratified squamous epithelia such as the oral cavity and the ectocervix.

Cytokeratin 20



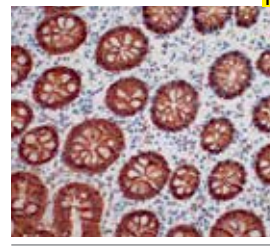
Cytokeratin 20 positivity in colon carcinoma stained using DAB chromogen

Clone: IT-Ks20.8
Isotype: IgG 2a
Source: Mouse
Immunogen: Electrophoretically purified cytokeratin 20 from human intestinal mucosa
Specificity: Cytokeratin 20
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM315-5M
Ready-to-Use (Automated):	
i6000™	AM315-10M
Xmatrix®	AX315-YCD, AX315-50D
Concentrated:	MU315-UC, MU315-5UC
Recommended Positive Control:	FG-315M
Recommended Barrier Control:	FB-315M

Cytokeratin 20 (46kD) is relatively less acidic than other type I keratins. This antibody reacts with certain types of carcinomas such as adenocarcinomas of the colon, transitional cell carcinomas of the bladder and Merkel cell tumors of the skin. It does not stain breast, lung and endometrial adenocarcinomas. The differential staining pattern of this antibody makes it very useful for tumor evaluation when used in conjunction with cytokeratin 7 staining.

Cytokeratin 20



Colon cancer stained with anti-Human Cytokeratin 20 using DAB chromogen

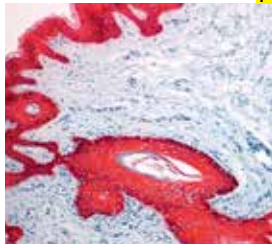
Clone: EP23
Isotype: IgG
Source: Rabbit
Immunogen: Residues near the C-term of human Cytokeratin 20 protein.
Specificity: Human Cytokeratin 20
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK /HK547-XAK
Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AN849-5M
Ready-to-Use (Automated):	
i6000™	AN849-10M
Xmatrix®	AY849-YCD, AY849-50D
Concentrated:	NU849-UC, NU849-5UC
Recommended Positive Control:	FG-849N
Recommended Barrier Control:	FB-849N

Intermediate-sized filament (IF) protein designated cytokeratin 20 (CK20) is a major cellular protein of mature enterocytes and goblet cells commonly found in mucosal epithelium of the mammalian gastrointestinal tract. Results strongly suggest that transcriptional regulation of keratin genes in the intestinal epithelium occurs at the level of both immature and terminally differentiated epithelial cells, and is tightly regulated during both fetal development and crypt-to-villus differentiation of the intestinal epithelium. CK20 has recently been reported to be useful to distinguish between primary and metastatic lung adenocarcinoma. CK20 expression was significantly more prevalent in adenocarcinoma that originated in the GI tract than that of pulmonary or breast origin.



Cytokeratin Cocktail



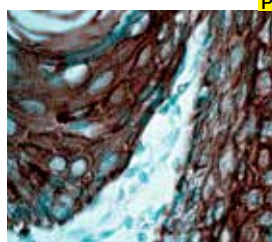
Skin tissue stained with Cytokeratin cocktail AE1 & AE3 using AEC chromogen

Clone: AE1 and AE3
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human epidermal keratin
 Specificity: Cytokeratin
 Localization: Cytoplasm
 Pre-treatment: Trypsin, 37°C, 20 min/
 EZ-AR 1
 Manual/i6000™: EK001-5K
 Xmatrix®: HX031-YCD

Ready-to-Use (Manual):	AM071-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM071-10M AX071-YCD, AX071-50D
Concentrated:	MU071-UC, MU071-5UC MU071-1UC
Recommended Positive Control:	FG-071M
Recommended Barrier Control:	FB-071M

Human cytokeratins (40 kD to 68 kD) are a family of water-insoluble proteins that form a major part of the cytoskeleton of epithelial cells. Immunohistochemical analysis of a large variety of neoplasms has established keratin protein immunohistochemistry as an important aid for classification of epithelial neoplasms. Monoclonal antibodies AE1 and AE3 recognize the acidic and basic subfamilies of cytokeratin, respectively. Thus, the combination of these two antibodies can be used to detect almost all human epithelia. These antibodies show no cross-reactivities with other cytoskeletal proteins. This monoclonal antibody cocktail can be used to detect almost all human epithelia. Membrane and cytoplasmic staining is seen in epithelial cells.

Cytokeratin Cocktail, Broad Spectrum



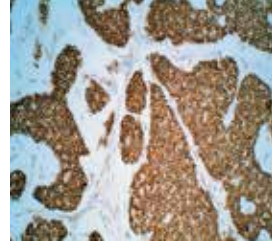
Normal stomach mucosa showing cytoplasmic positivity for Cytokeratin cocktail using DAB chromogen

Clone: 34βE12/C51/AE1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human epidermal keratin and cytoskeletal preparation of MCF-7 cells
 Specificity: Cytokeratin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrix®: HX032-YCD

Ready-to-Use (Manual):	AM273-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM273-10M AX273-YCD, AX273-50D
Recommended Positive Control:	FG-273M
Recommended Barrier Control:	FB-273M

Human cytokeratins, which form a major part of the cytoskeleton of epithelial cells, belong to a family of water soluble proteins ranging in size from 40 to 68 kD. Various subsets of cytokeratin proteins occur in any given epithelium, depending on the epithelium cell type, stage of differentiation and embryonic development, cellular growth environment, and type of malignancy. Immunohistochemical analysis of a large variety of neoplasms has established that cytokeratin protein immunohistochemistry is an important aid for epithelial tumor classification. This monoclonal antibody stains keratin in the cytoplasm of positive epithelial cells.

Cytokeratin Cocktail, Broad Spectrum



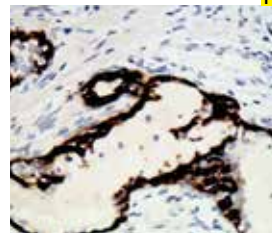
Breast Carcinoma stained with Anti-CK88 using DAB chromogen

Clone: LL002+DEK-10+RCK108+OV-TL12/30+C11
 Isotype: IgG Cocktail
 Source: Mouse
 Immunogen: Human epidermal keratin
 Specificity: Cytokeratin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM372-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM372-10M AX372-YCD, AX372-50D
Concentrated:	MU372-UC, MU372-5UC
Recommended Positive Control:	FG-372M
Recommended Barrier Control:	FB-372M

Human cytokeratins, a family of water-insoluble polypeptides, form the major part of the cytoskeleton in all normal and neoplastic epithelial cells. CK88 is a broad spectrum antibody cocktail that reacts with a variety of normal and neoplastic epithelia. It recognizes most epithelium including simple, basal, suprabasal layers, cornea, cornifying stratified epithelium of skin, transitional epithelium of urinary tract, and squamous epithelium. Analysis of intracellular keratin by immunoperoxidase technique is helpful in establishing the epithelial nature of primary or metastatic poorly differentiated neoplasms. This antibody stains cytokeratin in cytoplasm of normal and neoplastic epithelial cells.

Cytokeratin, High MW



Prostatic basal cells stained with Anti-Cytokeratin (HMW) using DAB chromogen

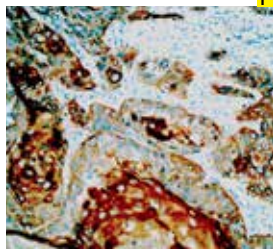
Clone: 34βE12
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Human stratum corneum
 Specificity: High molecular weight cytokeratin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM291-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM291-10M AX291-YCD, AX291-50D
Recommended Positive Control:	FG-291M
Recommended Barrier Control:	FB-291M

Monoclonal antibody 34βE12 is specific for "high molecular weight" cytokeratins 1, 5, 10, 14, corresponding to molecular weights of 68, 58, 56.5, and 50 kD, respectively, which are characteristically found in complex epithelium. The antibody reacts with all squamous and ductal epithelium and stains carcinomas. It reacts with benign small-acinar lesions of the prostate. This antibody stains positive in cytoplasm of epithelial cells.



Cytokeratin, High MW (Basic)



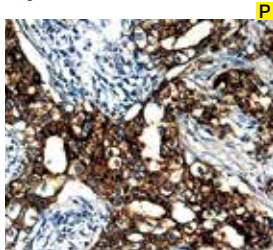
Squamous Cell carcinoma stained with Anti-Cytokeratin using DAB chromogen

Clone: AE3
 Isotype: IgG
 Source: Mouse
 Immunogen: Total keratin was isolated from human epidermal callus. After heating to 65° C for 10 minutes, the denatured keratins were used as the antigen
 Specificity: Cytokeratin high MW (basic)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM133-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM133-10M AX133-YCD, AX133-50D
Concentrated:	MU133-UC, MU133-5UC
Recommended Positive Control:	FG-133M
Recommended Barrier Control:	FB-133M

The cytokeratins are a family of water insoluble proteins (40-70 kD) found in almost all epithelial cell types. Monoclonal cytokeratin antibody AE3 recognizes all basic (Type II) keratins. Since each epithelium contains at least one acidic and one basic keratin, AE3 may be used as a broadly reactive antibody which stains positive for most epithelia and their neoplasms. AE3 has shown great sensitivity and broad specificity for keratins under various conditions of fixation and staining. This antibody stains positive for cytoplasm of most epithelia and their neoplasms.

Cytokeratin, Low MW



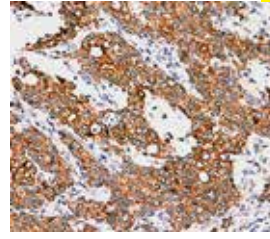
Breast Carcinoma stained with Anti-Cytokeratin using DAB chromogen

Clone: AE1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human epidermal keratin
 Specificity: 40, 48, 50 and 56.5 kD keratins
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/*i6000*: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM075-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM075-10M AX075-YCD, AX075-50D
Concentrated:	MU075-UC, MU075-5UC
Recommended Positive Control:	FG-075M
Recommended Barrier Control:	FB-075M

The cytokeratins are a family of water insoluble proteins (40-70 kD) found in almost all epithelial cell types. Low molecular weight cytokeratin antibody AE1 has proven to be a widespread histological marker for the restricted staining of the epidermal basal layer of skin and almost all epithelially derived tumors. It can be used as a marker for cells of epithelial origin. This antibody recognizes most type I keratins and shows broad species specificity reacting with keratins of many species including human, rabbit, mouse, bovine, and chick. Staining is usually stronger in alcohol-fixed tissues than in formalin-fixed tissues.

Cytokeratin, Pan



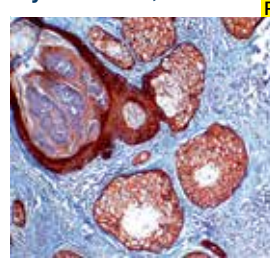
Adenocarcinoma stained with Anti-Cytokeratin Pan using DAB chromogen

Clone: Lu-5
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Cells from a lung cancer cell line
 Specificity: Cytokeratins
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM181-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM181-10M AX181-YCD, AX181-50D
Concentrated:	MU181-UC, MU181-5UC MU181-1UC
Recommended Positive Control:	FG-181M
Recommended Barrier Control:	FB-181M

The Lu-5 antibody recognizes an epitope on the surface of cytokeratin filaments which is present in a wide range of cytokeratins, except in intermediate-size filament proteins. This epitope may be found in all human epithelia and carcinomas and is resistant to formalin-fixation. The Lu-5 antibody was determined a useful pan cytokeratin marker for the detection of both normal and malignant epithelial and mesothelial cells. The Lu-5 antibody stains surface of cytokeratin filaments in a wide variety of normal and tumor tissues.

Cytokeratin, Pan



Cytokeratin Pan on skin tissue stained using AEC chromogen

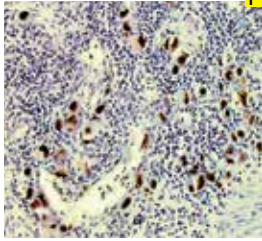
Clone: C11
 Isotype: IgG1
 Source: Mouse
 Immunogen: Cytoskeletal proteins from A431 cells
 Specificity: Cytokeratins
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM357-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM357-10M AX357-YCD, AX357-50D
Concentrated:	MU357-UC, MU357-5UC MU357-1UC
Recommended Positive Control:	FG-357M
Recommended Barrier Control:	FB-357M

Human keratins are a family of water-insoluble proteins with molecular weights ranging from 40-68kD. This monoclonal cytokeratin antibody can be used to detect cytokeratins 4, 5, 6, 8, 10, 13, and 18 in simple or stratified epithelium in most vertebrates including humans. It can be used as a marker for carcinomas as well as some special types of tumors which have an epithelial component or differentiation. This antibody stains cytokeratin in cytoplasm of normal and malignant epithelial cells in formalin-fixed, paraffin-embedded tissue sections, frozen sections or methanol-acetone-fixed culture cells.



Cytomegalovirus (CMV)



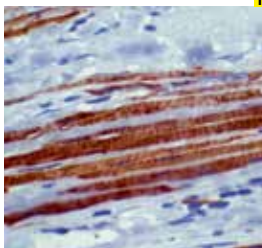
Clone: BM204
 Isotype: IgG1
 Source: Mouse
 Specificity: Cytomegalovirus
 Localization: Nuclear
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Colon tissue stained with anti-CMV using DAB chromogen

Ready-to-Use (Manual):	AM254-5M (ASR)
Ready-to-Use (Automated):	
i6000™	AM254-10M (RUO)
Xmatrx®	AX254-YCD, AX254-50D (RUO)
Concentrated:	MU254-UC, MU254-UC
	MU254-1UC (ASR)
Recommended Positive Control:	FG-254M
Recommended Barrier Control:	FB-254M

Cytomegalovirus (CMV) is a member of the family Herpesviridae. It is found in several body fluids including saliva, urine, breast milk, cervical secretions, blood, and semen. This antibody reacts with an early non-structural antigen of 68 kD found in the nucleus of infected cells. This antibody stains CMV particles in infected tissues and does not cross-react with the Herpes viruses. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

Desmin



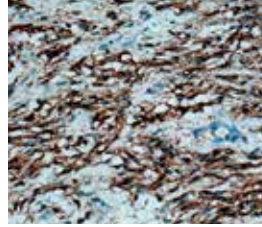
Clone: D33
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Purified desmin from human leiomyoma
 Specificity: Desmin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Skeletal muscle fibre stained with Anti-Desmin using DAB chromogen

Ready-to-Use (Manual):	AM072-5M
Ready-to-Use (Automated):	
i6000™	AM072-10M
Xmatrx®	AX072-YCD, AX072-50D
Concentrated:	MU072-UC, MU072-5UC
	MU072-1UC
Recommended Positive Control:	FG-072M
Recommended Barrier Control:	FB-072M

Desmin is a 56 kD intermediate filament expressed by cells of smooth, skeletal, and cardiac muscle. In myofibrils, desmin is localized in skeletal and cardiac muscle Z lines, in regions of cell-cell juncture, at the site of apposition of the Z line with the plasma membrane, and in cardiac intercalated disks. The specificity of desmin to muscle cells makes it a useful marker in identifying sarcomas derived from smooth and striated muscle cells such as leiomyosarcomas and rhabdomyosarcomas. This antibody does not cross-react detectably with GFAP, keratin, vimentin, or neurofilament. This antibody stains positive in muscle cells.

DOG1



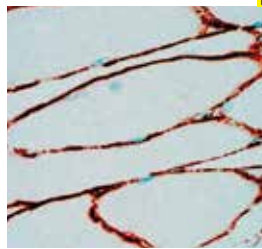
Clone: 1.1
 Isotype: IgG
 Source: Mouse
 Immunogen: A synthetic peptide corresponding to residues in human MUCDOG1 .
 Specificity: DOG1
 Localization: Cytoplasm/Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

GIST stained with Anti-DOG1 using DAB chromogen

Ready-to-Use (Manual):	AM570-5M
Ready-to-Use (Automated):	
i6000™	AM570-10M
Xmatrx®	AX570-YCD, AX570-50D
Concentrated:	MU570-UC, MU570-5UC
Recommended Positive Control:	FG-570M
Recommended Barrier Control:	FB-570M

DOG1 is a cell surface protein selectively expressed in gastrointestinal stromal tumors (GIST). The DOG1 protein shows no homology at the DNA or amino acid level with KIT. DOG1 antibody labels the epithelium of the following organs: breast, prostate, salivary gland, liver, stomach, testis, pancreas, and gallbladder. DOG1 is a useful marker for GISTs, including PDGFRA mutants that fail to express KIT antigen

Dystrophin



Clone: Dys1 (Dy4/6D3)
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Bacterial fusion protein containing mid-rod domain of human dystrophin
 Specificity: Dystrophin
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

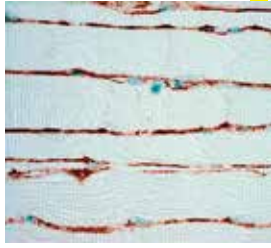
Skeletal muscle stained with Anti-Dystrophin using DAB chromogen

Ready-to-Use (Manual):	AM243-5M
Ready-to-Use (Automated):	
i6000™	AM243-10M
Xmatrx®	AX243-YCD, AX243-50D
Concentrated:	MU243-UC, MU243-5UC
Recommended Positive Control:	FG-243M
Recommended Barrier Control:	FB-243M

Dystrophin is the protein product of the Duchenne and Becker muscular dystrophy (DMD/BMD) gene with a relative molecular mass of 400 kD. This monoclonal antibody reacts with an epitope spanning the mid-rod domain between amino acids 1181 and 1388 of human dystrophin. It stains skeletal, cardiac, and smooth muscle dystrophin from normal human membrane in tissue and some animals.



Dystrophin



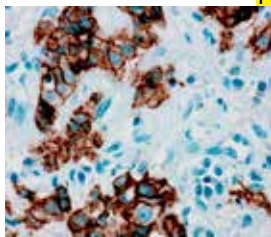
Skeletal muscle stained with Anti-Dystrophin using AEC chromogen

Clone: Dys2 (Dy8/6C5)
Isotype: IgG1
Source: Mouse
Immunogen: Synthetic polypeptide consisting of the last 17 amino acids at the carboxy terminus of the human dystrophin sequence
Specificity: Dystrophin
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM244-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM244-10M AX244-YCD, AX244-50D
Recommended Barrier Control:	FG-244M
Recommended Barrier Control:	FB-244M

Dystrophin is the protein product of the Duchenne and Becker muscular dystrophy (DMD/BMD) gene with a relative molecular mass of 400 kD. Antibodies to dystrophin show that DMD individuals lack dystrophin in their muscle cells or that dystrophin is present at very low levels, whereas BMD individuals produce a protein with reduced abundance or abnormal size. This monoclonal antibody reacts with an epitope spanning the mid-rod domain between amino acids 1181 and 1388 of human dystrophin. This antibody stains membrane in skeletal, cardiac, and smooth muscle dystrophin from normal human tissue and some animals.

E-Cadherin



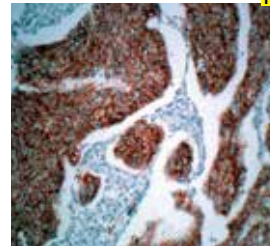
Breast carcinoma stained with anti-E-cadherin using DAB chromogen

Clone: EP6
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues in the 5th cadherin domain of human E-Cadherin protein.
Specificity: E-Cadherin
Localization: Membrane
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN725-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AN725-10M AY725-YCD, AY725-50D
Concentrated:	NU725-UC, NU725-5UC
Recommended Positive Control:	FG-725N
Recommended Barrier Control:	FB-725N

E-Cadherin is a transmembrane glycoprotein that plays an important role in epithelial cell adhesion. In prostate cancers, the expression of E-cadherin is reported to be reduced or absent in comparison with its expression in normal prostate which is uniformly strong. A decreased expression of E-Cadherin is associated with metastatic potential and poor prognosis in breast cancer and esophagus cancer. In combination with p120 Catenin or Cytokeratin, it is useful for the differentiation between ductal (E-Cadherin positive) and lobular (E-Cadherin negative) breast carcinomas. It may also help in diagnosis of mesothelioma.

E-Cadherin



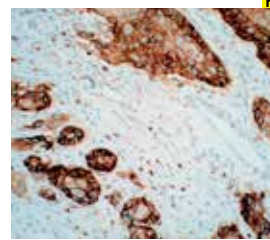
Membranous positivity of E-Cadherin on Colon carcinoma stained using DAB chromogen

Clone: 36
Isotype: IgG1
Source: Mouse
Immunogen: C-terminal peptide of human E-cadherin
Specificity: E-Cadherin
Localization: Membrane
Pre-treatment: EZ-AR1 elegance
Manual/i6000: HK546-XAK
Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM390-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM390-10M AX390-YCD, AX390-50D
Concentrated:	MU390-UC, MU390-5UC
Recommended Positive Control:	FG-390M
Recommended Barrier Control:	FB-390M

E-Cadherin (123-kD) is a cell surface glycoprotein responsible for Ca²⁺-dependent intercellular adhesion between epithelial cells. Alterations in the cell-cell adhesion mechanism mediated by E-Cadherin which is lightly associated with alpha catenin may have implications in the metastatic potential of prostate cancer. E-Cadherin may also play a role in adhesion of dendritic epidermal T cells to keratinocytes. Clone 36 may be used to investigate the process of tumor invasion.

EGFR



Lung sarcoma stained with anti-Human EGFR using DAB chromogen

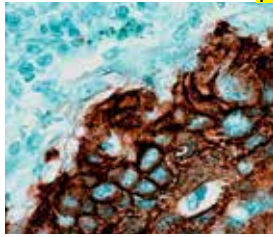
Clone: EP22
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic phosphopeptide corresponding to residues Tyr1068 of human EGFR was used as immunogen. The antibody detects both EGFR phosphorylated on Tyr1068 of the nature human isoform 1 (corresponding to Y1092 from the precursor form P00533-1/p170), and also unphosphorylated EGFR
Specificity: Human EGFR
Localization: Nuclear and cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN781-5M (ASR)
Ready-to-Use (Automated): i6000™ Xmatrix®	AN781-10M (RUO) AY781-YCD, AY781-50D (RUO)
Concentrated:	NU781-UC, NU781-5UC NU781-1UC (ASR)
Recommended Positive Control:	FG-781N
Recommended Barrier Control:	FB-781N

Epidermal growth factor receptor (EGFR) is a 170 kDa transmembrane glycoprotein receptor tyrosine kinase that, activated by epidermal growth factor (EGF), affects cell growth and differentiation. Binding of EGF or TGF alpha to EGFR activates tyrosine kinase activity of the receptor. EGFR associated with a number of cancers, including lung cancer, anal cancers[7] and glioblastoma multiforme. These somatic mutations involving EGFR lead to its constant activation, which produces uncontrolled cell division. In breast cancer, EGFR is predominately expressed in basal cell-like carcinoma; it has been recommended for identification of basal-like breast carcinoma along with Cytokeratin 5/6. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**



EGFR



P

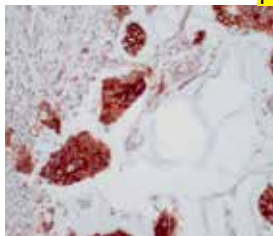
Clone: Polyclonal
 Source: Rabbit
 Immunogen: Synthetic peptide encompassing amino 1195 through 1210 of human EGFR
 Specificity: Epidermal Growth Factor Receptor
 Localization: Membrane + Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Squamous Cell carcinoma stained with Anti-EGFR using DAB chromogen

Ready-to-Use (Manual):	AR335-5R (ASR)
Ready-to-Use (Automated):	
i6000™	AR335-10R (RUO)
Xmatrix®	AW335-YCD, AW335-50D (RUO)
Concentrated:	PU335-UP, PU335-5UP (ASR)
Recommended Positive Control:	FG-335P
Recommended Barrier Control:	FB-335P

EGFR (LRVAP) reacts with the 170 kD EGFR transmembrane glycoprotein. It binds specifically to the intracellular portion, regardless of phosphorylation state. The extracellular domain binds epidermal growth factor (EGF) as a proliferation signal. The EGFR antibody is made against a sequence which is unique from related tyrosine kinase receptors and hence shows no cross-reactivity. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

Ep-CAM



P

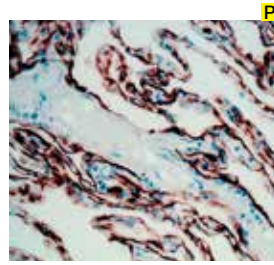
Clone: EP155
 Isotype: IgG
 Source: Rabbit
 Immunogen: Human epithelial antigen (EpCAM) protein. Ep-CAM is a highly conserved type I transmembrane glycoprotein and is expressed on most normal and malignant epithelial cells
 Specificity: Human Ep-CAM
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Adenoma stained with anti-Human Ep-CAM using DAB chromogen

Ready-to-Use (Manual):	AN820-5M
Ready-to-Use (Automated):	
i6000™	AN820-10M
Xmatrix®	AY820-YCD, AY820-50D
Concentrated:	NU820-UC, NU820-5UC NU820-1UC
Recommended Positive Control:	FG-820N
Recommended Barrier Control:	FB-820N

Ep-CAM is a highly conserved type I transmembrane glycoprotein and is expressed on most normal and malignant epithelial cells. Ep-CAM is also known as epithelial cell adhesion molecule or MOC31, Ber-EP4. It is detected at the membrane/cytoplasm of the majority of epithelial tissues (all simple, pseudo-stratified and transitional epithelial), with the exception of the adult squamous epithelium and some epithelium-derived cell, such as hepatocytes, epidermal keratinocytes, gastric parietal cells, myoepithelial cells, and thymic cortical epithelium. In tumors, Ep-CAM is over expressed by the majority of human epithelial carcinomas, except hepatocellular carcinomas (HCC).

Epithelial Membrane Antigen (EMA)



P

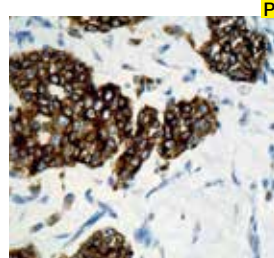
Clone: E29
 Isotype: IgG2a Kappa
 Source: Mouse
 Immunogen: Delipidated extract of human cream
 Specificity: EMA
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Pancreatic tissue showing positivity for EMA stained using DAB chromogen

Ready-to-Use (Manual):	AM057-5M
Ready-to-Use (Automated):	
i6000™	AM057-10M
Xmatrix®	AX057-YCD, AX057-50D
Concentrated:	MU057-UC, MU057-5UC
Recommended Barrier Control:	FB-057M
Recommended Barrier Control:	FB-057M

Epithelial Membrane Antigen (EMA), also known as milk fat globule membrane protein, is present on the luminal surface of mammary gland epithelium. Although EMA is primarily located in mammary gland epithelium, other normal epithelia (e.g., lung) will also react against EMA antibody. Cells obtained from solid metastases and pleural effusions accompanying a breast cancer will react with EMA antibody. It may also be useful for identification of meningioma. Human colon carcinoma, osteosarcoma, kidney carcinoma, hepatocellular carcinomas, adrenal carcinoma, embryonal carcinoma, liposarcoma, lung carcinoma, and mixed parotid tumor do not stain with EMA antibody.

Epithelial Membrane Antigen (EMA)



P

Clone: Mc5
 Isotype: IgG1
 Source: Mouse
 Immunogen: Delipidated human milk fat globules
 Specificity: Epithelial membrane antigen
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

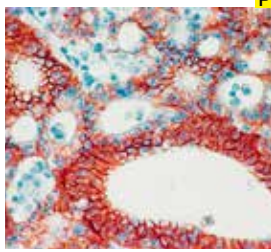
Breast Carcinoma stained with Anti-EMA using DAB chromogen

Ready-to-Use (Manual):	AM182-5M
Ready-to-Use (Automated):	
i6000™	AM182-10M
Xmatrix®	AX182-YCD, AX182-50D
Concentrated:	MU182-UC, MU182-5UC
Recommended Positive Control:	FG-182M
Recommended Barrier Control:	FB-182M

The mucin antigen recognized by Mc5 is a glycosylated molecule with a molecular mass of 400 kD. The sequence to which this antibody binds is Thr-Arg-Pro-Ala-Pro. Although EMA is primarily located in mammary gland epithelium, other normal epithelia (e.g., lung) will also react against EMA antibody. Staining, however, is the strongest in mammary epithelia. The combination of positive staining for keratin with negative EMA can be used to phenotype the above-mentioned epithelial tumors.



Epithelial Specific Antigen



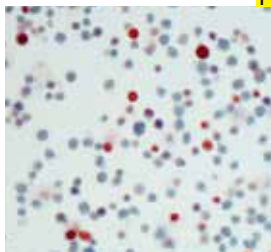
Adenocarcinoma stained with Anti-ESA using AEC chromogen

P
 Clone: MOC-31
 Isotype: IgG1
 Source: Mouse
 Immunogen: Cell line from small cell lung carcinoma, CD2 epithelial antigen
 Specificity: 40 kD epithelial-specific cluster 2 antigen
 Localization: Membrane
 Pre-treatment: EZ-AR1 elegance
 Manual/i6000: HK546-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM316-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM316-10M AX316-YCD, AX316-50D
Concentrated:	MU316-UC, MU316-5UC
Recommended Positive Control:	FG-316M
Recommended Barrier Control:	FB-316M

Monoclonal antibody MOC-31 recognizes the cluster 2 antigen which is a 40 kD transmembrane glycoprotein present on the membrane of epithelial cells. Since MOC-31 reacts with virtually all normal epithelia and adenocarcinomas but not with mesothelial cells, this antibody can serve as a reliable marker for determining the origin of pleural and peritoneal tumors. This antibody stains a membrane glycoprotein on epithelial cells, but not mesothelial cells.

Epstein-Barr Virus (EBV) Early Antigen



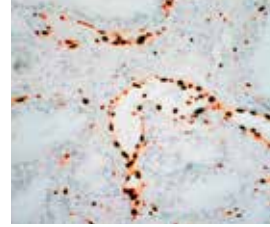
Cell Culture Slide stained with Anti-EBV using AEC chromogen

F
 Clone: 1108-1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Immunoprecipitated EBV early antigens
 Specificity: Immunoprecipitated EBV early antigens
 Localization: Nucleus/Cytoplasm
 Pre-treatment: None

Ready-to-Use (Manual):	AM222-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM222-10M AX222-YCD, AX222-50D
Concentrated:	MU222-UC, MU222-5UC
Recommended Positive Control:	FG-222M
Recommended Barrier Control:	FB-222M

This antibody produces an intense, diffuse or speckled staining pattern in the nucleus of paraformaldehyde/acetone-fixed cells expressing the early antigen of EBV by immunohistochemical techniques. **For research use only, not for use in diagnostic procedures.**

ERG



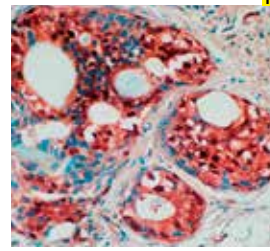
Prostate stained with anti-Human ERG using DAB chromogen

P
 Clone: EP111
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the C-terminus of human ERG Protein
 Specificity: Human ERG
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN782-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN782-10M AY782-YCD, AY782-50D
Concentrated:	NU782-UC, NU782-5UC
Recommended Positive Control:	FG-782N
Recommended Barrier Control:	FB-782N

ERG is directed against the C-terminus of the ETS transcription regulator, ERG, and is capable of detecting both wildtype ERG, and truncated ERG resulting from ERG gene rearrangement. This antibody exhibits a nuclear staining pattern and may be used to aid in the identification of prostate adenocarcinomas through the detection of truncated ERG. This ERG antibody also recognizes Fli-1 by western blot analysis.

Estradiol



Breast carcinoma stained with Anti-Estradiol using AEC chromogen

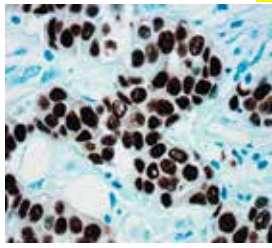
P
 Clone: Polyclonal
 Source: Rabbit
 Immunogen: 17-beta-estradiol conjugated to bovine serum albumin.
 Specificity: Estradiol
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR038-5R
Ready-to-Use (Automated): i6000™ Xmatrx®	AR038-10R AW038-YCD, AW038-50D
Recommended Positive Control:	FG-038P
Recommended Barrier Control:	FB-038P

Estradiol plays an important role in the genesis and development of human breast cancer and endometrial carcinoma. It is synthesized primarily in the ovary, but also in the placenta, testis, and possibly the adrenal cortex. Estradiol is also produced by testicular Leydig tumors, as well as by Sertoli tumors of the testis and ovary. It is also produced in mammary gland carcinoma, and carcinoma of the adrenal cortex.



Estrogen Receptor



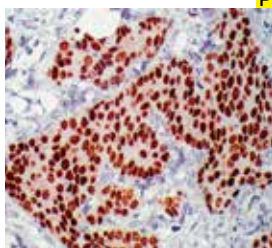
P
 Clone: EP1
 Isotype: IgG
 Source: Rabbit
 Immunogen: Recombinant Estrogen Receptor protein
 Specificity: Estrogen receptor protein
 Localization: Nuclear
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Breast carcinoma stained with Anti-ER-Alpha using DAB chromogen

Ready-to-Use (Manual):	AN710-5M (ASR)
Ready-to-Use (Automated):	AN710-10M (RUO)
i6000™	AY710-YCD, AY710-50D (RUO)
Xmatrx®	
Concentrated:	NU710-UC, NU710-5UC (ASR)
Recommended Positive Control:	FG-710N
Recommended Barrier Control:	FB-710N

Estrogen Receptor-Alpha (ER Alpha) is a nuclear protein and member of the steroid hormone receptor family. ER Alpha possess both DNA binding and ligand binding domains, and exerts a significant role in activating the transcription of certain genes. Ligand-dependent dimerization and phosphorylation both function to regulate the transcriptional activation of ER alpha. This antibody stains nucleus of neoplastic cells in the breast ductal carcinoma tissues by immunohistochemical techniques. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

Estrogen Receptor (InSite® ER)



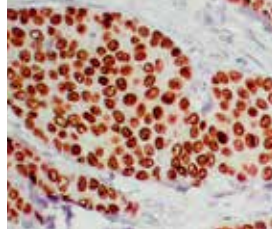
P
 Clone: ER88
 Isotype: IgG1
 Source: Mouse
 Immunogen: Recombinant Estrogen Receptor protein
 Specificity: Estrogen receptor protein
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Breast carcinoma stained with Anti-ER using DAB chromogen

Ready-to-Use (Manual):	AM368-5M
Ready-to-Use (Automated):	AM368-10M
i6000™	AX368-YCD, AX368-50D
Xmatrx®	
Concentrated:	MU368-UC, MU368-5UC
Recommended Positive Control:	FG-368M
Recommended Barrier Control:	FB-368M

Estrogen receptor (ER) content of breast cancer tissue is an important parameter in the prediction of prognosis and response to endocrine therapy. Highly specific monoclonal antibodies to ER have allowed the determination of receptor status of breast tumors to be carried out. This antibody stains the nucleus of receptor positive cells.

Estrogen Receptor-Beta (ER-β)



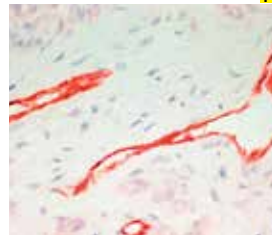
P
 Clone: Polyclonal
 Source: Rabbit
 Immunogen: A 17-mer sequence close to carboxy-terminus of ER-β protein was chosen to be the template for synthesis of a 4-branch Multiple Antigenic Peptide (MAP)
 Specificity: Estrogen Receptor-β protein
 Localization: Nucleus
 Pre-treatment: EZ-AR1 elegance
 Manual/i6000: HK546-XAK
 Xmatrx: HX031-YCD

Breast carcinoma stained with Anti-ER-beta using DAB chromogen

Ready-to-Use (Manual):	AR385-5R
Ready-to-Use (Automated):	AR385-10R
i6000™	AW385-YCD, AW385-50D
Xmatrx®	
Concentrated:	PU385-UP, PU385-5UP
	PU385-1UP
Recommended Positive Control:	FG-385P
Recommended Barrier Control:	FB-385P

Human Estrogen Receptor beta (ERb) is highly homologous to human ERa and displays 96% and 58% homology in the DNA and hormone binding domains, respectively. Human ERb mRNA is expressed in testis, prostate, thyroid, ovary, and smooth muscle. ERb is expressed in various normal and neoplastic cells. The rabbit polyclonal antibody ERb88 is directed against human ERb protein and marks nuclei of many different cells on formalin-fixed, paraffin-embedded tissue sections.

Factor VIII-Related Antigen



P
 Clone: F8 2.2.9
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Purified Human Factor VIII
 Specificity: Factor VIII-related antigen
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

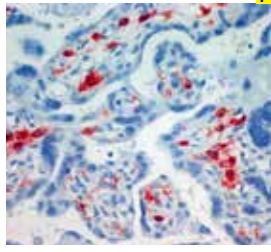
Leiomyoma stained with Anti-FVIII using AEC chromogen

Ready-to-Use (Manual):	AM016-5M
Ready-to-Use (Automated):	AM016-10M
i6000™	AX016-YCD, AX016-50D
Xmatrx®	
Concentrated:	MU016-UC, MU016-5UC
Recommended Positive Control:	FG-016M
Recommended Barrier Control:	FB-016M

This antigen has proven to be one of the best available immunohistochemical markers for the identification of endothelial cells. Demonstration of Factor VIII-related antigen by immunohistochemical staining has been suggested to identify vascular invasion by neoplasms.



Factor XIII Subunit A



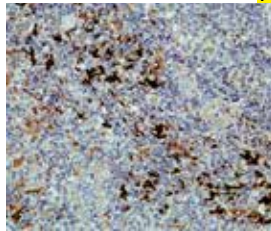
Factor XIII A positivity in placenta stained using AEC chromogen

P
 Clone: E980.1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Prokaryotic recombinant protein corresponding to a portion of the C-terminus of factor XIIIa molecule
 Specificity: Coagulation Factor XIIIa
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM337-5M
Ready-to-Use (Automated):	
i6000™	AM337-10M
Xmatrx®	AX337-YCD, AX337-50D
Concentrated:	MU337-UC, MU337-5UC
Recommended Positive Control:	FG-337M
Recommended Barrier Control:	FB-337M

The enzyme Factor XIII is a protransglutaminase involved in the final part of the coagulation pathway, stabilizing clot formation by cross-linking fibronectin to collagen. Factor XIII is found within a variety of dendritic cells in connective tissues. It plays a general role in various processes such as cell proliferation and tissue remodeling, including embryonic and fetal embryogenesis, wound healing, atherosclerosis, and tumor growth. This antibody stains the cytoplasm of positive cells.

Fascin



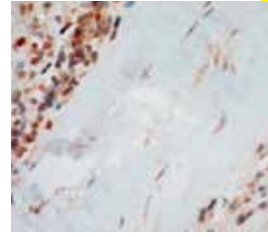
Lymph Node stained with Anti-Fascin using DAB chromogen

P
 Clone: FCN01
 Isotype: IgG
 Source: Mouse
 Immunogen: Fascin purified from HeLa cells
 Specificity: Fascin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM488-5M
Ready-to-Use (Automated):	
i6000™	AM488-10M
Xmatrx®	AX488-YCD, AX488-50D
Concentrated:	MU488-UC, MU488-5UC
Recommended Positive Control:	FG-488M
Recommended Barrier Control:	FB-488M

Human fascin is a highly conserved actin-binding protein. Fascin, encoded by the human homolog for the sn (hsn) gene, has been localized to microspikes and stress fibers of cultured cells where it is thought to be involved in the formation of microfilament bundles. It is expressed predominantly in dendritic cells. Lymphoid cells, myeloid cells and plasma cells are negative. However, Reed Sternberg cells in Hodgkin's lymphoma are positive for fascin staining. Epstein-Barr virus may induce expression of fascin in B cells.

FLI1



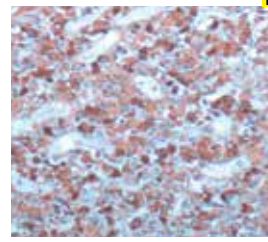
Ewings sarcoma stained with anti-Human FLI1 using DAB chromogen

P
 Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: FLI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52-80 amino acids from the N-terminal region of human FLI1.
 Specificity: Human FLI1
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR798-5R
Ready-to-Use (Automated):	
i6000™	AR798-10R
Xmatrx®	AW798-YCD, AW798-50D
Concentrated:	PU798-UP, PU798-5UP
Recommended Positive Control:	FG-798P
Recommended Barrier Control:	FB-798P

Defects in FLI1 are a cause of Ewing sarcoma (ES), a highly malignant, metastatic, primitive small round cell tumor of bone and soft tissue that affects children and adolescents. It belongs to the Ewing sarcoma family of tumors, a group of morphologically heterogeneous neoplasms that share the same cytogenetic features. They are considered neural tumor derived from cells of the neural crest. Ewing sarcoma represents the less differentiated form of the tumors. Note: A chromosomal aberration involving FLI1 is found in patients with Ewing sarcoma.

FSH



Pituitary stained with anti-Human FSH using DAB chromogen

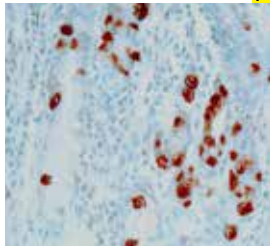
P
 Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: Gives a positive and specific immunostaining of FSH-containing cells. Also shows reactivity to LH containing cells
 Specificity: Human FSH
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AR766-5R
Ready-to-Use (Automated):	
i6000™	AR766-10R
Xmatrx®	AW766-YCD, AW766-50D
Concentrated:	PU766-UP, PU766-5UP
Recommended Positive Control:	FG-766P
Recommended Barrier Control:	FB-766P

Follicle stimulating hormone enables ovarian folliculogenesis to the antral follicle stage and is essential for Sertoli cell proliferation and maintenance of sperm quality in the testis. Members of the pituitary glycoprotein hormone family, of which FSH is one (see also luteinizing hormone, chorionic gonadotropin, and thyroid stimulating hormone), consist of a shared alpha chain and a beta chain encoded by a separate gene. The FSHB gene encodes the beta subunit of follicle stimulating hormone. Tumors that do not consist of adenohypophysial cells neither produce nor contain pituitary hormone, and thus immunoperoxidase techniques are helpful in distinguishing them from those pituitary tumors that store various hormones in the cell cytoplasm. FSH, a glycoprotein hormone, stimulates the graafian follicles of the ovary and assists subsequently in follicular maturation and the secretion of estradiol. In the male, it stimulates the epithelium of the seminiferous tubules and is partially responsible for inducing spermatogenesis.



Gastrin



P

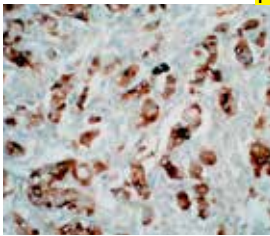
Clone: Polyclonal
 Source: Rabbit
 Immunogen: Synthetic human Gastrin-I bound to keyhole limpet hemocyanin (KLH) with carbodiimide
 Specificity: Gastrin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR 1
 Manual/i6000: None
 Xmatrix: HX031-YCD

Stomach tissue stained with Anti-Gastrin using DAB chromogen

Ready-to-Use (Manual):	AR019-5R
Ready-to-Use (Automated):	
i6000™	AR019-10R
Xmatrix®	AW019-YCD, AW019-50D
Concentrated:	PU019-UP, PU019-5UP
Recommended Positive Control:	FG-019P
Recommended Barrier Control:	FB-019P

The major source of Gastrin in the body is the antropyloric mucosa of the stomach. Significant increases in the antropyloric G-cell (gastrin producers) population occur in a wide variety of clinical conditions such as atrophic gastritis, pernicious anemia, gastric carcinoma, gastric outlet obstruction, Zollinger-Ellison syndrome, and duodenal ulcer disease. Neoplastic proliferations of the gastrin producing cells are frequently associated with the Zollinger-Ellison syndrome.

GCDFP-15



P

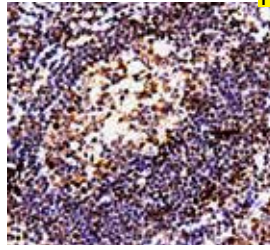
Clone: EP95
 Isotype: IgG
 Source: Rabbit
 Immunogen: Human Gross Cystic Disease Fluid Protein-15.
 Specificity: Human GCDFP-15
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK /HK547-XAK
 Xmatrix: HX031-YCD

Breast cancer tissue stained with anti-Human GCDFP-15 using DAB chromogen

Ready-to-Use (Manual):	AN856-5M
Ready-to-Use (Automated):	
i6000™	AN856-10M
Xmatrix®	AY856-YCD, AY856-50D
Concentrated:	NU856-UC, NU856-5UC
Recommended Positive Control:	FG-856N
Recommended Barrier Control:	FB-856N

Gross cystic disease fluid protein (GCDFP-15), also called prolactin inducible protein (PIP), is a single polypeptide chain with a versatile function in human reproductive and immunological systems. GCDFP-15 binds to CD4, exerts a potent inhibition on T lymphocyte apoptosis mediated by CD4/T-cell receptor (TCR) activation, and carries a fibronectin-specific aspartyl protease activity. It is up regulated by prolactin and androgens, while it is down regulated by estrogen. In normal adult tissues, GCDFP-15 expression was found in all apocrine, lacrimal, ceruminous, and Moll's glands and in numerous serous cells of the submandibular, sublingual, and minor salivary glands. The serous cells of nasal and bronchial glands were also positive. It is used as a marker of apocrine differentiation. GCDFP-15 has been found in the cyst fluid of cystic breast disease and primary and metastatic breast cancer, and considered a highly specific marker for identification of breast cancer. GCDFP-15 expression has also been found in other cancer types including salivary glands, sweat glands, prostate, and lung.

GITR



P

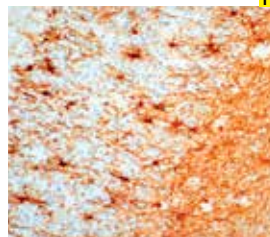
Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: Synthetic peptide directed towards the C terminal of human TNFRSF18
 Specificity: Human GITR
 Localization: Cell Membrane
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Tonsil stained with Anti-GITR using DAB chromogen

Ready-to-Use (Manual):	AR915-5R (ASR)
Ready-to-Use (Automated):	
i6000™	AR915-10R (RUO)
Xmatrix®	AW915-YCD, AW915-50D (RUO)
Concentrated:	PU915-UP, PU915-5UP
	PU915-1UP (ASR)
Recommended Positive Control:	FG-915P
Recommended Barrier Control:	FB-915P

GITR (Glucocorticoid-induced TNF receptor family-regulated gene), also known as TNFRSF18, belongs to the TNF receptor superfamily (TNFRS). GITR is widely expressed in different cells of the immune system and its activation triggers the production of proinflammatory cytokines. GITR is constitutively expressed at high levels on Tregs and at low levels on naive and memory T cells. Activation of GITR with its ligand (GITRL) or with anti-GITR agonist antibodies (such as DTA-1) provides strong costimulatory signals for T cells. Furthermore, activation of GITR with agonistic antibodies has been shown to amplify the antitumor immune responses in animal models by increasing the proliferation and function of effector T cells and possibly also by abrogating the suppressive function of Tregs cells. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

GFAP



P

Clone: EP13
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the C-terminus of human Glial Fibrillary Acidic Protein
 Specificity: Human GFAP
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

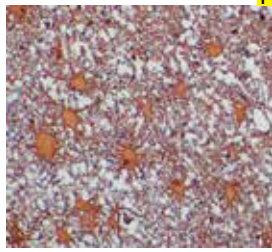
Cerebrum stained with anti-Human GFAP using DAB chromogen

Ready-to-Use (Manual):	AN783-5M
Ready-to-Use (Automated):	
i6000™	AN783-10M
Xmatrix®	AY783-YCD, AY783-50D
Concentrated:	NU783-UC, NU783-5UC
	NU783-1UC
Recommended Positive Control:	FB-783N
Recommended Barrier Control:	FB-783N

Glial Fibrillary Acidic Protein (GFAP) belongs to the class III of the intermediate filament proteins highly specific to astrocytes in the brain. It detects astrocytes, Schwann cells, satellite cells, enteric glial cells, and some groups of ependymal cells GFAP is used to differentiate astrocytoma from nonglial cell tumors.



Glial Fibrillary Acidic Protein (GFAP)



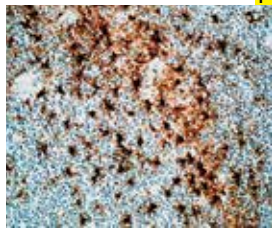
P
 Clone: GA-5
 Isotype: IgG1
 Source: Mouse
 Immunogen: GFAP isolated from porcine spinal cord
 Specificity: Glial fibrillary acidic protein (GFAP)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Astrocytes and other acid fibers in cerebrum stained with Anti-GFAP using DAB chromogen

Ready-to-Use (Manual):	AM020-5M
Ready-to-Use (Automated):	
i6000™	AM020-10M
Xmatrx®	AX020-YCD, AX020-50D
Concentrated:	MU020-UC, MU020-5UC
	MU020-1UC
Recommended Positive Control:	FG-020M
Recommended Barrier Control:	FB-020M

Glial Fibrillary Acidic Protein (GFAP) is the subunit of the glial specific "intermediate" filament that includes desmin filaments in smooth muscle, vimentin filaments in cultured fibroblasts, keratin filaments in epithelium and neurofilaments in neural cells. This antibody stains human GFAP in positive astrocytes and other positive cells.

Glial Fibrillary Acidic Protein (GFAP)



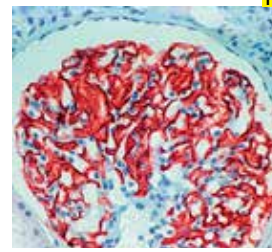
P
 Clone: Polyclonal
 Source: Rabbit
 Immunogen: GFAP isolated from bovine spinal cord.
 Specificity: Glial fibrillary acidic protein (GFAP)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Cerebellum tissue stained with Anti-GFAP using DAB chromogen

Ready-to-Use (Manual):	AR020-5R
Ready-to-Use (Automated):	
i6000™	AR020-10R
Xmatrx®	AW020-YCD, AW020-50D
Concentrated:	PU020-UP, PU020-5UP
	PU020-1UP
Recommended Positive Control:	FG-020P
Recommended Barrier Control:	FB-020P

Glial Fibrillary Acidic Protein (GFAP) is the subunit of the glial specific "intermediate" filament that includes desmin filaments in smooth muscle, vimentin filaments in cultured fibroblasts, keratin filaments in epithelium and neurofilaments in neural cells. This antibody stains GFAP from many species including human, mouse, and rat in cytoplasm of astrocytes and Bergmann glia.

Glomerular Epithelial Protein 1 (GLEPP-1)



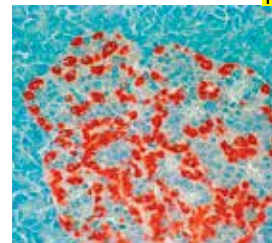
P
 Clone: 5C11
 Isotype: IgG2b
 Source: Mouse
 Immunogen: GLEPP-1 fusion protein
 Specificity: GLEPP1
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Kidney tissue stained with Anti-GLEPP-1 using AEC chromogen

Ready-to-Use (Manual):	AM336-5M
Ready-to-Use (Automated):	
i6000™	AM336-10M
Xmatrx®	AX336-YCD, AX336-50D
Concentrated:	MU336-UC, MU336-5UC
Recommended Positive Control:	FG-336M
Recommended Barrier Control:	FB-336M

Glomerular epithelial protein 1 (GLEPP1) is a transmembrane protein tyrosine phosphatase found only in the epithelial cells of the renal glomerulus. The monoclonal antibody 5C11 has been raised against a fusion protein made from part of its extracellular domain. In the normal glomerulus, GLEPP1 is present only in visceral glomerular cells (podocytes). The presence of GLEPP1 may be used as a marker of podocyte integrity in various forms of glomerular injury. This antibody stains human GLEPP1 protein in the epithelial cells of the renal glomerulus.

Glucagon



P
 Clone: Polyclonal
 Source: Rabbit
 Immunogen: Synthetic human glucagon
 Specificity: Glucagon
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

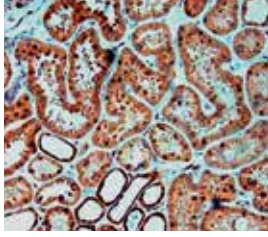
Pancreas tissue stained with Anti-Glucagon using AEC chromogen

Ready-to-Use (Manual):	AR039-5R
Ready-to-Use (Automated):	
i6000™	AR039-10R
Xmatrx®	AW039-YCD, AW039-50D
Concentrated:	PU039-UP, PU039-5UP
	PU039-1UP
Recommended Positive Control:	FG-039P
Recommended Barrier Control:	FB-039P

Glucagon is a polypeptide of 29 amino acids produced by the pancreatic alpha cells. In addition to its well known effect of elevating blood glucose concentration, glucagon functions to inhibit gastric and pancreatic secretions. Tumors producing large amounts of glucagon are referred to as glucagonomas. This antibody stains the cytoplasm in A cells of the endocrine pancreas and reacts with glucagon in a number of mammalian species.



Glut-1



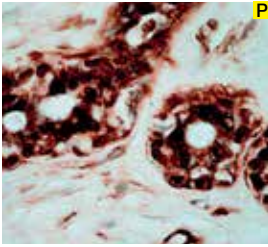
Kidney tissue stained with Anti-Glut-1 using DAB chromogen

Clone: SPM498
 Isotype: IgG
 Source: Mouse
 Immunogen: Glut-1 purified from Primary cultures of myoblasts.
 Specificity: GLUT-1
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM505-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM505-10M
Xmatrix [®]	AX505-YCD, AX505-50D
Concentrated:	MU505-UC, MU505-5UC
Recommended Positive Control:	FG-505M
Recommended Barrier Control:	FB-505M

Glucose is fundamental to the metabolism in mammalian cells. Several glucose transporter protein (Glut) isoforms have been identified and shown to function in response to insulin and IGF-1 induced signaling. GLUT-1 is detectable in many human tissues including those of the colon, lung, stomach, esophagus, and breast. GLUT-1 immunoreactivity in some cancers, including trans carcinoma of the urinary bladder, has been associated with aggressive behavior.

Glutathione S-Transferase Pi (GST Pi)



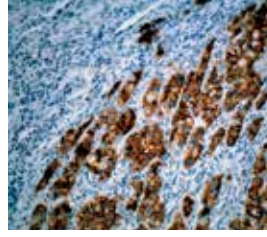
GST Pi positivity in breast carcinoma stained using DAB chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: Purified proteins from the cytosol of a human chronic lymphoblastic spleen
 Specificity: Glutathione S-transferase pi
 Localization: Nucleus & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR249-5R
Ready-to-Use (Automated):	
<i>i6000</i> TM	AR249-10R
Xmatrix [®]	AW249-YCD, AW249-50D
Concentrated:	PU249-UP, PU249-5UP
Recommended Positive Control:	FG-249P
Recommended Barrier Control:	FB-249P

Glutathione S-Transferases (GSTs) are a multigene family of enzymes centrally involved with drug metabolism and detoxification. All eukaryotic species possess multiple cytosolic and membrane-bound GST isoenzymes, each of which displays distinct catalytic as well as noncatalytic binding properties.

Glypican-3 (GPC3)



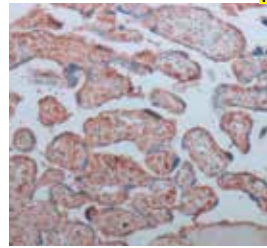
Hepatocellular carcinoma stained with Anti-Glypican-3 using DAB chromogen

Clone: GPC3-88
 Isotype: IgG
 Source: Mouse
 Immunogen: Glypican-3 is a mouse monoclonal antibody derived from cell culture supernatant
 Specificity: Glypican
 Localization: Cytoplasm/Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM539-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM539-10M
Xmatrix [®]	AX539-YCD, AX539-50D
Concentrated:	MU539-UC, MU539-5UC
Recommended Positive Control:	FG-539M
Recommended Barrier Control:	FB-539M

Glypican-3 (GPC3) is a glycosylphosphatidylinositol-anchored membrane protein, which may also be found in a secreted form. GPC3 belongs to the glypican family of heparan sulfate proteoglycans. This protein may be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs. Glypican-3 is thought to regulate tissue and organ growth through interactions with growth factors such as insulin-like growth factor II or fibroblast growth factor 2. **For research use only. Not for use in diagnostic procedures.**

Glycophorin A+B (E3)



Glyco stained with anti-Human HIR2 using DAB chromogen

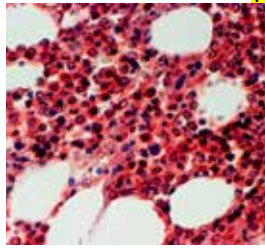
Clone: E3
 Isotype: IgG
 Source: Mouse
 Immunogen: peptide corresponding to human Glycophorin A + B (N-terminal)
 Specificity: Human HIR2
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM889-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM889-10M
Xmatrix [®]	AY889-YCD, AY889-50D
Concentrated:	MU889-UC, MU889-5UC
Recommended Positive Control:	FG-889M
Recommended Barrier Control:	FB-889M

Glycophorins A, B and C are sialoglycoproteins of the human erythrocytemembrane, which bear the antigenic determinants for the MN, Ss, and Gerbic blood groups, respectively. Glycophorins span the membrane and present their amino-terminal end to the extracellular surface of the human erythrocyte. Glycophorin A + B antibody recognizes Nterminal, homologous portion of glycophorins A (GPA) and B (GPB), (strongly to GPA, and weakly to GPB). The antibody is useful in erythroid cell development studies, because HIR2 antigen is expressed on early erythroblasts, late erythroblasts, erythroblasts, mature erythrocytes and the cell of erythroid cell lines K562 and HEL, but not on all other cell (mature erythrocytes are characteristically CD235a positive and CD45 and CD71 negative). **For research use only, not for use in diagnostic procedures.**



Granulocyte



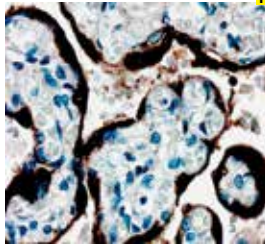
Bone marrow trephine stained with Anti-Granulocyte using AEC chromogen

Clone: BM-2
 Isotype: IgG1
 Source: Mouse
 Immunogen: Nuclei from pokeweed mitogen-stimulated human peripheral blood lymphocytes
 Specificity: Granulocytes
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM210-5M
Ready-to-Use (Automated):	
i6000™	AM210-10M
Xmatrix®	AX210-YCD, AX210-50D
Concentrated:	MU210-UC, MU210-5UC
Recommended Positive Control:	FG-210M
Recommended Barrier Control:	FB-210M

The BM-2 antibody can provide important differentiation information and may be used along with antibodies BM-1 and BM-3 to stain early precursor and mature forms of human myeloid cells. This group of monoclonal antibodies reacts with antigenic determinants present in normal myeloid cells and leukemias of similar derivation. BM-2 recognizes an antigen present in the cytoplasm of mature granulocytes. This antibody stains the cytoplasm of human granulocytes (polymorphonuclear leukocytes) residing in lymphoid and non-lymphoid tissue.

Growth Hormone (hGH)



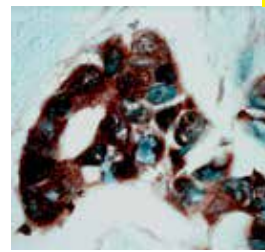
Placenta stained with anti-HGH antibody using DAB chromogen

Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: HGH
 Specificity: HGH
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR707-5R
Ready-to-Use (Automated):	
i6000™	AR707-10R
Xmatrix® :	AW707-YCD, AW707-50D
Concentrated:	PU707-UP, PU707-5UP
	PU707-1UP
Recommended Positive Control:	FG-707P
Recommended Barrier Control:	FB-707P

Growth Hormone (GH, somatotropin) is the primary hormone responsible for regulating overall body growth and is also important in organic metabolism. It is synthesized by acidophilic or somatotrophic cells of the anterior pituitary gland. Human GH has a molecular weight of 22 kD. GH stimulates growth indirectly by promoting the liver's production of somatomedins, which act directly on bone and soft tissue to cause growth. GH exerts direct metabolic effects on the liver, adipose tissue and muscle. In general, growth hormone enhances protein synthesis, conserves carbohydrates and uses up fat stores.

Heat Shock Protein (HSP-70)



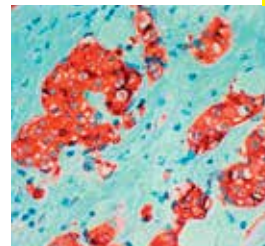
Breast carcinoma stained with Anti-HSP 70 using DAB chromogen

Clone: BRM-22
 Isotype: IgG1
 Source: Mouse
 Immunogen: Bovine brain HSP70
 Specificity: Heat Shock Protein70 (HSP-70)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM289-5M
Ready-to-Use (Automated):	
i6000™	AM289-10M
Xmatrix®	AX289-YCD, AX289-50D
Concentrated:	MU289-UC, MU289-5UC
	MU289-1UC
Recommended Positive Control:	FG-289M
Recommended Barrier Control:	FB-289M

HSP-70 is a member of a multigene family encoding several closely related 70-73 kD stress proteins (the HSP-70 family). These genes differ in their intracellular location and regulation and are thought to be involved in protein-protein interactions such as those of the protein products of the p53 tumor suppressor gene and the human c-myc oncogene. This antibody stains HSP-70 localized in the cytoplasm and/or nuclei in tissue from breast carcinoma, brain tumors, Alzheimer's disease and alcoholic liver disease.

Heat Shock Protein 27 (HSP 27)



Breast carcinoma stained with Anti-HSP27 using AEC chromogen

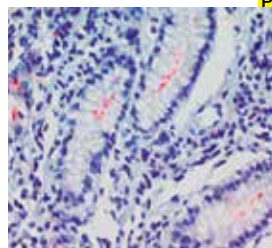
Clone: G3.1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Balb/c mice were immunized with "24K" protein isolated from the cytosol of MCF-7 cells. Spleen cells from immunized mice were fused with NS-1 myeloma cells
 Specificity: hsp27
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM171-5M
Ready-to-Use (Automated):	
i6000™	AM171-10M
Xmatrix®	AX171-YCD, AX171-50D
Concentrated:	MU171-UC, MU171-5UC
	MU171-1UC
Recommended Positive Control:	FG-171M
Recommended Barrier Control:	FB-171M

HSP27 also known as the 24K estrogen-regulated protein or HSP28, is a small heat shock protein that has been shown to correlate with the expression of estrogen-receptors. Increased levels of HSP27 have been shown to correlate with the presence of ER and PR in human breast tumor biopsy samples. This antibody stains estrogen regulated heat shock protein (HSP27) in cytoplasm of cells in female reproductive tract.



Helicobacter pylori



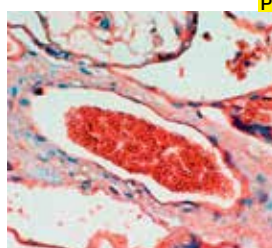
Infected mucosa stained with Anti-H. pylori using AEC chromogen

Clone: ULC3R
 Source: Mouse
 Immunogen: Heat killed bacteria
 Specificity: *Helicobacter pylori*
 Localization: H. Pyloric
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM880-5M (ASR)
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM880-10M (RUO)
Xmatrix [®]	AX880-YCD, AX880-50D (RUO)
Concentrated	MU880-UC, MU880-5UC
	MU880-1UC (ASR)
Recommended Positive Control:	FG-880M
Recommended Barrier Control:	FB-880M

This antibody stains the bacilli in lumen of infected stomach in formalin-fixed, paraffin-embedded tissue sections. **Analyte Specific Reagent.** Analytical and performance characteristics are not established, Automated version is for research use only.

Hemoglobin A



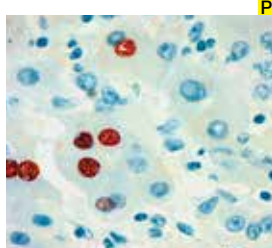
Placenta tissue stained with Anti-Hb using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: Purified hemoglobin
 Specificity: Hemoglobin A
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR021-5R
Ready-to-Use (Automated):	
<i>i6000</i> TM	AR021-10R
Xmatrix [®]	AW021-YCD, AW021-50D
Recommended Positive Control:	FG-021P
Recommended Barrier Control:	FB-021P

Immunohistochemical localization of hemoglobin is an excellent marker for the detection of immature, dysplastic, and megaloblastic erythroid cells particularly in myeloproliferative disorders such as erythroleukemia. Myeloid cells, lymphoid cells, plasma cells, histiocytes and megakaryocytes do not give positive staining for hemoglobin. Megaloblastic erythroid cells give strong staining for hemoglobin. This antibody stains human hemoglobin A predominantly in cytoplasm of erythroid cells.

Hepatitis B Virus Core Antigen (HBcAg)



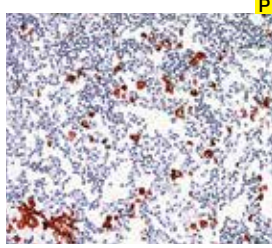
Liver tissue stained with Anti-HBcAg using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: HBcAg purified from lysates of *E. coli* clones containing the viral core DNA
 Specificity: Hepatitis B core antigen
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR082-5R (ASR)
Ready-to-Use (Automated):	
<i>i6000</i> TM	AR082-10R (RUO)
Xmatrix [®]	AW082-YCD, AW082-50D (RUO)
Concentrated:	PU082-UP, PU082-5UP (ASR)
Recommended Positive Control:	FG-082P
Recommended Barrier Control:	FB-082P

This antibody stains Hepatitis B Virus Core Antigen in nuclei of infected cells in tissue sections stained by immunohistochemical techniques. **Analyte Specific Reagent.** Analytical and performance characteristics are not established. Automated version is for research use only.

Herpes Simplex Virus Type I (HSV I)



Infected lung tissue stained with Anti-HSV I using AEC chromogen

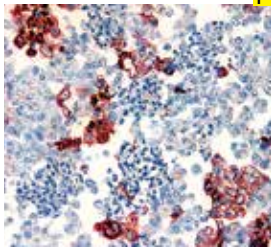
Clone: Polyclonal
 Source: Rabbit
 Immunogen: Rabbit cornea cells infected with the MacIntyre strain of HSV type I and solubilized in detergent
 Specificity: Herpes Simplex Virus (HSV) type I
 Localization: Nuclear
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR084-5R (ASR)
Ready-to-Use (Automated):	
<i>i6000</i> TM	AR084-10R (RUO)
Xmatrix [®]	AW084-YCD, AW084-50D (RUO)
Concentrated:	PU084-UP, PU084-5UP (ASR)
Recommended Positive Control:	FG-084P
Recommended Barrier Control:	FB-084P

Human herpes simplex virus type I (HSV-I) is part of the herpesvirus family which also includes HSV-II, Epstein-Barr virus (mononucleosis), herpes zoster (chicken pox) and cytomegalovirus. They grow in the cell nuclei, bud through the nuclear membrane and cause latent infections. There is a significant degree of cross-reactivity between HSV-I and HSV-II. No cross-reactivity is seen with the Epstein-Barr virus, cytomegalovirus or herpes zoster virus. **Analyte Specific Reagent.** Analytical and performance characteristics are not established. Automated version is for research use only.



Herpes Simplex Virus Type II (HSV II)



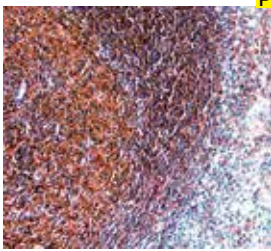
Cultured cells infected with HSV II, stained with Anti HSV II using DAB chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: HSV type II (strain MS) infected whole rabbit cornea cells solubilized in detergent
 Specificity: Herpes simplex Virus (HSV) type II
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR085-5R (ASR)
Ready-to-Use (Automated): i6000™ Xmatrx®	AR085-10R (RUO) AW085-YCD, AW085-50D (RUO)
Concentrated:	PU085-UP, PU085-5UP (ASR)
Recommended Positive Control:	FG-085P
Recommended Barrier Control:	FB-085P

The antibody reacts with all the major glycoproteins present in the viral envelope and at least one core protein as determined by crossed immunoelectrophoresis. It does not cross react with cytomegalovirus and Epstein-Barr virus. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

HLA-DR



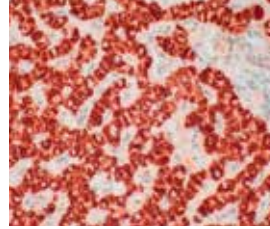
Thyroid tissue stained with Anti-HLADR using DAB chromogen

Clone: LN3
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Activated human peripheral blood mononuclear cells
 Specificity: LN3
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM154-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM154-10M AX154-YCD, AX154-50D
Concentrated:	MU154-UC, MU154-5UC MU154-1UC
Recommended Positive Control:	FG-154M
Recommended Barrier Control:	FB-154M

HLA-DR is a transmembrane glycoprotein composed of an alpha chain (36 kD) and a beta chain (27 kD). LN3 is reactive with a non-polymorphic antigen of the HLA-DR (Ia) region, expressed primarily by antigen presenting cells, B-cells of the germinal centers and mantle zones, and additionally by monocytes, macrophages and interdigitating histiocytes. LN3 will produce medium intensity staining on B lymphocytes of germinal centers and mantle zones, and high intensity staining of interdigitating histiocytes in T-cell zones. This antibody stains the HLA-DR antigen in membrane of positive cells.

HSA



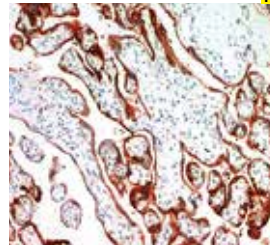
Liver tissue stained with Anti-HSA using DAB as a chromogen

Clone: HSA/E8
 Isotype: IgG1/K
 Source: Mouse
 Immunogen: Human HSA
 Specificity: HSA
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM550-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM550-10M AX550-YCD, AX550-50D
Concentrated:	MU550-UC, MU550-5UC
Recommended Positive Control:	FG-550M
Recommended Barrier Control:	FB-550M

Hepatocyte Specific Antigen (HSA) has been demonstrated consistently in the vast majority of hepatocellular carcinomas. HSA recognizes both benign and malignant liver derived tissues including such tumors as hepatoblastoma, Hepatocellular carcinoma, and hepatic adenoma. It recognizes both normal adult and fetal liver tissue. This antibody is useful in differentiating hepatocellular carcinomas with adenoid features from adenocarcinomas, either primary in the liver or metastatic lesions to the liver. In recognizing hepatoblastoma, it is useful in differentiating this entity from other small round cell tumors.

Human Chorionic Gonadotropin (hCG) Beta



Placenta tissue stained with Anti-hCG beta using DAB chromogen

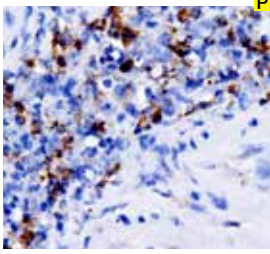
Clone: M94138
 Isotype: IgG
 Source: Mouse
 Immunogen: Purified hCG Beta-subunit
 Specificity: Beta-hCG
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1 elegance
 Manual/i6000: HK546-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM395-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM395-10M AX395-YCD, AX395-50D
Concentrated:	MU395-UC, MU395-5UC
Recommended Positive Control:	FG-395M
Recommended Barrier Control:	FB-395M

Human Chorionic Gonadotropin (hCG) is a 40 kD glycoprotein secreted in large quantities by the placenta and normally circulates at readily detectable levels only during gestation. Immunohistochemical studies reveal localization of hCG in syncytiotrophoblasts. Isolated clusters of giant cells may be found in association with certain components of germ cell tumors but are most frequently associated with embryonic carcinoma, endodermal sinus tumor, and germinoma. This antibody stains the cytoplasm of positive cells.



IDO



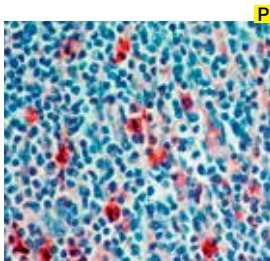
Spleen stained with Anti-IDO using DAB chromogen

Clone: 4D2
 Isotype: IgG
 Source: Mouse
 Immunogen: IDO (AAH27882, a.a. 1-404) full length recombinant protein with GST tag
 Specificity: Human IDO
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual): AM916-5M (ASR)
Ready-to-Use (Automated):
i6000™ AM916-10M (RUO)
 Xmatrix® AX916-YCD, AX916-50D (RUO)
Concentrated: MU916-UC, MU916-5UC
 MU916-1UC (ASR)
Recommended Positive Control: FG-916M
Recommended Barrier Control: FB-916M

IDO or INDO (Indoleamine-pyrrole 2,3-dioxygenase) is a heme-containing intracellular enzyme that in humans is encoded by the IDO1 gene. IDO is the first and rate-limiting enzyme of tryptophan catabolism through kynurenine pathway, thus causing depletion of tryptophan which can cause halted growth of microbes as well as T cells. It has been shown that IDO permits tumor cells to escape the immune system by depletion of L-Trp in the microenvironment of cells. A wide range of human cancers such as prostatic, colorectal, pancreatic, cervical, gastric, ovarian, head, and lung, over express human IDO and inhibition of the IDO pathway is emerging as an important modality for the treatment of cancer. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

IgA



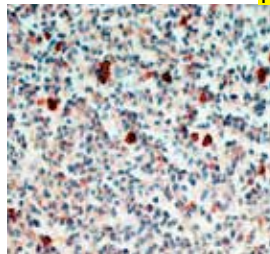
Tonsil tissue stained with anti-IgA using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: IgA isolated from human serum
 Specificity: IgA
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual): AR045-5R
Ready-to-Use (Automated):
i6000™ AR045-10R
 Xmatrix® AW045-YCD, AW045-50D
Concentrated: PU045-UP, PU045-5UP
Recommended Positive Control: FG-045P
Recommended Barrier Control: FB-045P

IgA is the predominant antibody isotype in mucosal areas. This antibody reacts with IgA but not with other isotypes. It is useful in the evaluation of leukemias, plasmacytomas, certain non-Hodgkin's lymphomas, and glomerulonephritis.

IgD



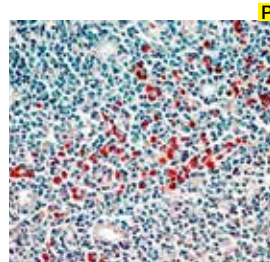
Tonsil stained with Anti-IgD using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: IgD isolated from a pool of normal human sera
 Specificity: Human IgD
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual): AR440-5R
Ready-to-Use (Automated):
i6000™ AR440-10R
 Xmatrix® AW440-YCD, AW440-50D
Concentrated: PU440-UP, PU440-5UP
Recommended Positive Control: FG-440P
Recommended Barrier Control: FB-440P

IgD is expressed on mature B cells and may be used to classify B cell neoplasms. Mantle zone B-cells in primary follicles and those outlining the germinal centers of secondary follicles are seen to be positive for IgD expression. Thus, this antibody could be used to detect changes in nodal architecture. It also may be used to detect the expanded follicular structures of progressive transformation of germinal center (PTGC), which are composed largely of IgD+ mantle zone B-cells. It is used along with IgM as a marker to identify marginal zone lymphomas.

IgG



Tonsil stained with Anti-IgG using AEC chromogen

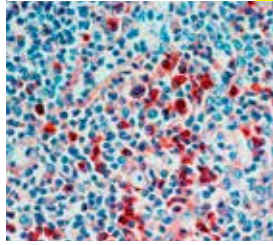
Clone: IgG88
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Purified human immunoglobulin
 Specificity: IgG
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual): AM367-5M
Ready-to-Use (Automated):
i6000™ AM367-10M
 Xmatrix® AX367-YCD, AX367-50D
Concentrated: MU367-UC, MU367-5UC
Recommended Positive Control: FG-367M
Recommended Barrier Control: FB-367M

The molecular weight of IgG is 150 kD consisting of two gamma heavy chains and two kappa or lambda light chains. Immunohistochemical techniques to identify immunoglobulins have been used in the classification of leukemias, plasmacytomas and certain non-Hodgkin's lymphomas. In addition, immunoglobulin immunohistochemistry has been widely used in nephropathology and dermatopathology for studying a variety of immune diseases.



IgG



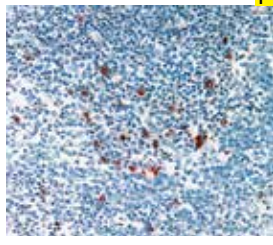
Tonsil tissue stained with Anti-IgG using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: IgG isolated from human serum
 Specificity: IgG
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AR050-5R
Ready-to-Use (Automated): i6000™ Xmatrix®	AR050-10R AW050-YCD, AW050-50D
Concentrated:	PU050-UP, PU050-5UP
Recommended Positive Control:	FG-050P
Recommended Barrier Control:	FB-050P

The human B-lymphocyte is characterized by the presence of readily detectable surface immunoglobulins. Up to 10 percent of peripheral blood lymphocytes and 68-70 percent of the lymphocytes in lymph nodes are of the B-cell type. The patterns of reactivity to IgG, IgA, IgM, C3, kappa, and lambda light chains can be used for the characterization of certain kinds of kidney and skin diseases. This antibody stains human IgG in the cytoplasm and membrane of B-cells and is negative for light chains and other heavy chains.

IgM



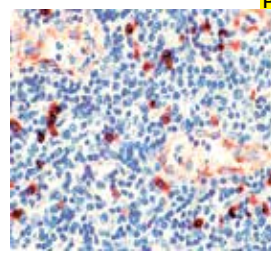
Tonsil stained with Anti-IgM using DAB chromogen

Clone: IgM88
 Isotype: IgG 2b Kappa
 Source: Mouse
 Immunogen: Purified human IgM
 Specificity: IgM
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM366-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM366-10M AX366-YCD, AX366-50D
Concentrated:	MU366-UC, MU366-5UC
Recommended Positive Control:	FG-366M
Recommended Barrier Control:	FB-366M

This monoclonal antibody reacts with human IgM heavy (mu) chain Fc region of 900kD pentameric IgM. It does not react with IgA, IgG or with light chains. This antibody stains plasma cells containing IgM, but does not usually stain immune complexes and surface IgM. It is useful for the evaluation of leukemias, plasmacytomas, and certain non-Hodgkin's lymphomas, the majority of which derive from B-cell lineage. The common underlying feature of these malignancies is the restricted expression of heavy and light chains to a single heavy and light chain type.

IgM



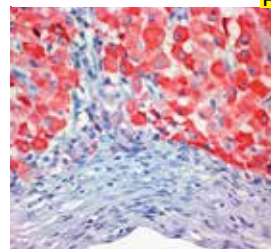
IgM expression in tonsil stained using DAB chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: IgM isolated from human plasma
 Specificity: IgM antigen
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR427-5R
Ready-to-Use (Automated): i6000™ Xmatrix®	AR427-10R AW427-YCD, AW427-50D
Concentrated:	PU427-UP, PU427-5UP
Recommended Positive Control:	FG-427P
Recommended Barrier Control:	FB-427P

This polyclonal antibody reacts with mu-chains of human IgM. All B-cells have IgD and IgM expressed predominantly on the surface and presumably act as antigen receptors. Surface IgM is present on mantle zone and marginal zone B-cells. Immature B-cells in bone marrow express IgM and mature B-cells migrating to periphery secrete IgD and IgM. The demonstration of both IgM and IgD can be useful in determining if a B-cell lymphoma is derived from mantle or marginal zone.

Inhibin Alpha



Ovary tissue stained with Anti-Inhibin Alpha using DAB chromogen

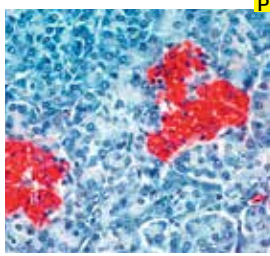
Clone: R1
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Synthetic peptide from 1-32 peptide of the alpha subunit of human Inhibin alpha
 Specificity: Inhibin Alpha
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM446-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM446-10M AX446-YCD, AX446-50D
Concentrated:	MU446-UC, MU446-5UC
Recommended Positive Control:	FG-446M
Recommended Barrier Control:	FB-446M

Inhibins are dimeric gonadal protein hormones that negatively regulate pituitary FSH synthesis and secretion. Inhibin contains an alpha and beta subunit linked by disulfide bonds. Two forms of inhibin differ in their beta subunits (A or B), while their alpha subunits are identical. Inhibin B is comprised of the Inhibin alpha subunit disulfide linked to the Inhibin beta subunit. Initial studies indicated that Inhibin is a critical negative regulator of gonadal stromal cell proliferation and was the first secreted protein identified to have tumor-suppressor activity. Inhibin alpha-subunit immunoreactivity has been detected in Sertoli cells, spermatocytes, and in some Leydig cells.



Insulin



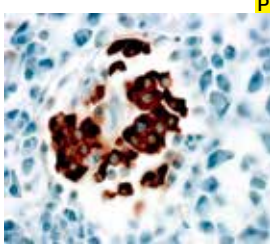
Pancreas tissue stained with Anti-Insulin using AEC chromogen

Clone: HB125
 Isotype: IgG 1, Kappa
 Source: Mouse
 Immunogen: Purified human insulin
 Specificity: Insulin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM029-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM029-10M AX029-YCD, AX029-50D
Concentrated:	MU029-UC, MU029-5UC
Recommended Positive Control:	FG-029M
Recommended Barrier Control:	FB-029M

Lack of this hormone gives rise to diabetes mellitus. The development of specific antibodies to various polypeptide hormones have made IHC localization of these hormones such as Insulin (which is produced in the pancreas by beta cells of Islet of Langerhans) the most sensitive and reliable means available for an accurate characterization of the function of islet cell tumors. This antibody recognizes the A chain loop of human Insulin. Cross-reactivity with bovine, rat and mouse Insulin has been observed. This antibody stains insulin in the cytoplasm of beta cells in the pancreas.

Insulin



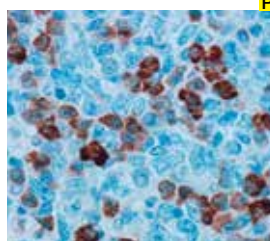
Insulin Pancreas stained with anti-Insulin using DAB chromogen

Clone: EP125
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in human Insulin protein
 Specificity: Human Insulin protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AN735-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN735-10M AY735-YCD, AY735-50D
Concentrated:	NU735-UC, NU735-5UC
Recommended Positive Control:	FG-735N
Recommended Barrier Control:	FB-735N

Insulin is a hormone that regulates glucose homeostasis. It is synthesized in the pancreas within the β-cells of the islets of Langerhans. One million to three million islets of Langerhans (pancreatic islets) form the endocrine part of the pancreas, which is primarily an exocrine gland. The endocrine portion accounts for only 2% of the total mass of the pancreas. Within the islets of Langerhans, beta cells constitute 65–80% of all the cells. The antibody labels both normal and neoplastic insulin-producing cells. It is useful in identifying insulinoma.

J-chain



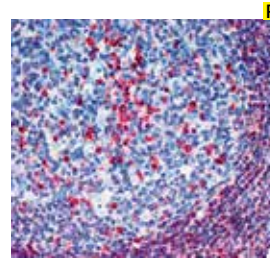
Tonsil stained with anti-Human J-chain using DAB chromogen

Clone: SP105
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide near the internal region of human J-chain
 Specificity: Human J-chain
 Localization: perinuclear spaces and endoplasmic reticulum of the lymphocytes
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN756-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN756-10M AY756-YCD, AY756-50D
Concentrated:	NU756-UC, NU756-5UC NU756-1UC
Recommended Positive Control:	FG-756N
Recommended Barrier Control:	FB-756N

J chain is a small glycopeptide and is structurally unrelated to heavy or light chains, but is synthesized by all plasma cells that secrete polymeric immunoglobulins. J chains are present in a large proportion of the immunoglobulin-positive cells in the germinal centres of the tonsils and lymph nodes. B cells secrete J chain at an early stage of differentiation with the expression persisting in those cells destined to produce IgA or IgM. J chain has been proposed to play a role in the mucosal transport of polymeric Igs by the polymeric Ig receptor. The studies show that a significant proportion of deposited mesangial immunoglobulin in IgA nephropathy is dimeric, or J chain positive. This monoclonal antibody stains J chain in cytoplasm of positive cells. B cells secrete J chain at an early stage of differentiation with the expression persisting in those cells destined to produce IgA or IgM.

J Chain



Tonsil stained with Anti-J-chain using Fast Red chromogen

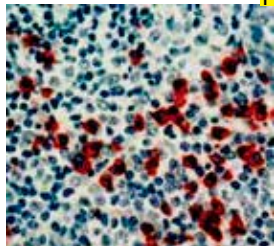
Clone: JC88
 Isotype: IgG 1 Kappa
 Source: Mouse
 Immunogen: Human J chain
 Specificity: J chain
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM374-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM374-10M AX374-YCD, AX374-50D
Concentrated:	MU374-UC, MU374-5UC
Recommended Positive Control:	FG-374M
Recommended Barrier Control:	FB-374M

J chain is a small, glycopeptide of 15 kD. It is structurally unrelated to heavy or light chains, but is synthesized by all plasma cells that secrete polymeric immunoglobulins. J chains are present in a large proportion of the immunoglobulin-positive cells in the germinal centers of the tonsils and lymph nodes. B cells secrete J chain at an early stage of differentiation with the expression persisting in those cells destined to produce IgA or IgM.



Kappa Light Chain



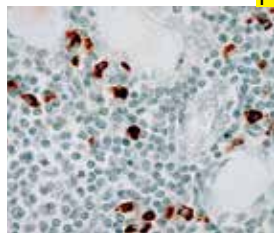
Tonsil stained with Anti-Kappa Light Chain using AEC chromogen

Clone: L1C1
 Isotype: IgG1
 Source: Mouse
 Immunogen: B-lymphoma cells
 Specificity: Kappa light chain
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM048-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM048-10M AX048-YCD, AX048-50D
Concentrated:	MU048-UC, MU048-5UC
Recommended Positive Control:	FG-048M
Recommended Barrier Control:	FB-048M

The light chains of immunoglobulin molecules have two antigenic types: kappa and lambda. A given immunoglobulin molecule contains two light chains, either both kappa or both lambda. As a result the clonal nature of any immunoglobulin-producing cell population can be determined by its light chain structure. The most important use of this technique would be in distinguishing atypical reactive follicular lymphoid hyperplasia from follicular lymphoma, undifferentiated carcinoma from large cell lymphoma, pseudolymphoma from lymphoma, and reactive plasmacytosis from well differentiated plasmacytoma.

Kappa Light Chain



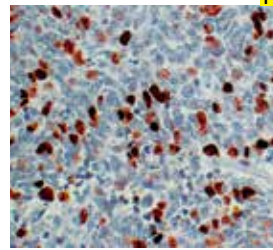
Plasma cell in the tonsil showing Kappa light chain positivity stained using DAB chromogen

Clone: K88
 Isotype: IgG1, Kappa
 Source: Mouse
 Immunogen: Human kappa protein
 Specificity: Kappa light chain
 Localization: Cytoplasm
 Pre-treatment: EZ-AR 1
 Manual/i6000: None
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM369-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM369-10M AX369-YCD, AX369-50D
Concentrated:	MU369-UC, MU369-5UC
Recommended Positive Control:	FG-369M
Recommended Barrier Control:	FB-369M

This antibody reacts specifically with the kappa light chain of human immunoglobulin and not lambda light chain and is reactive with intact IgG (kappa), IgM (kappa), free kappa light chains, and Bence-Jones kappa light chains. The most important use of this antibody would be in distinguishing atypical reactive follicular lymphoid hyperplasia from follicular lymphoma, undifferentiated carcinoma from large cell lymphoma, pseudolymphoma from lymphoma, and reactive plasmacytosis from well differentiated plasmacytoma.

Ki-67



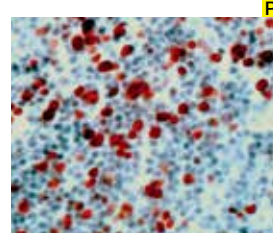
Medulloblastoma stained with Anti-Ki-67 using DAB chromogen

Clone: K-2
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Recombinant Ki-67 protein fragment close to C-terminus
 Specificity: Ki-67 antigen
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM410-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM410-10M AX410-YCD, AX410-50D
Concentrated:	MU410-UC, MU410-5UC
Recommended Positive Control:	FG-410M
Recommended Barrier Control:	FB-410M

Ki-67 reacts with a human nuclear antigen that is expressed in proliferating cells but not in resting cells. Ki-67 antigen is a potent tool for rapidly evaluating the growth fraction of any given human cell subset. It is particularly useful in studying malignant tumors and other pathogenic states as a measure of the proportion of proliferating cells. Immunostaining of Ki-67 antigen in normal tissue shows nuclear reactivity in cells of germinal centers of cortical follicles, cortical thymocytes, neck cells of gastrointestinal mucosa, and undifferentiated spermatogonia.

Ki-67 Antigen, Proliferating Cell



Tonsil stained with Anti-Ki67 using AEC chromogen

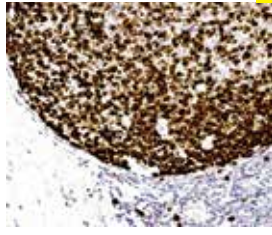
Clone: MIB-1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Peptide fragment of Ki-67 antigen
 Specificity: Ki-67 antigen
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM297-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM297-10M AX297-YCD, AX297-50D
Concentrated:	MU297-UC, MU297-5UC
Recommended Positive Control:	FG-297M
Recommended Barrier Control:	FB-297M

Ki-67 is one of the most widely studied proliferating cell antigens. The expression of Ki-67 antigen is limited to cells in phase G1, S and G2 with the highest levels present in the M phase. Ki-67 is more likely to be expressed in aneuploid tumors compared to diploid tumors, and it is associated with a high mitotic count and high histology grade. This monoclonal antibody enables detection of Ki-67 in proliferating cell populations in routine paraffin sections. The antibody stains positive in the nucleus of proliferation cells.



Ki-67 Antigen, Proliferating Cell



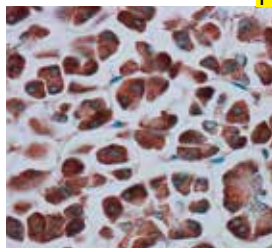
Lymph node germinal cells stained with Anti-Ki-67 using DAB chromogen

Clone: Ki88
 Isotype: IgG1, Kappa
 Source: Mouse
 Immunogen: Recombinant human Ki-67 protein
 Specificity: Ki-67 antigen
 Localization: Nucleus
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM370-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM370-10M AX370-YCD, AX370-50D
Concentrated:	MU370-UC, MU370-5UC
Recommended Positive Control:	FG-370M
Recommended Barrier Control:	FB-370M

The monoclonal antibody Ki88 reacts with a human nuclear antigen expressed in proliferating cells but absent in resting cells. Immunostaining of the Ki-67 antigen in normal tissue shows nuclear reactivity in cells of germinal centers of cortical follicles, cortical thymocytes, neck cells of gastrointestinal mucosa, and undifferentiated spermatogonia. Resting cells such as lymphocytes, monocytes, parietal cells and Paneth's cells of gastrointestinal mucosa, hepatocytes, renal cells, and mature sperm cells do not stain. This antibody stains a human nuclear antigen expressed in all proliferating cells.

KRAS



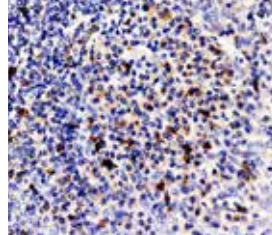
Pancreas stained with anti-Human KRAS using DAB chromogen

Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to a sequence at the C-terminal of human KRAS
 Specificity: Human KRAS
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR751-5R
Ready-to-Use (Automated): i6000™ Xmatrix®	AR751-10R AW751-YCD, AW751-50D
Concentrated:	PU751-UP, PU751-5UP PU751-1UP
Recommended Barrier Control:	FG-751P
Recommended Barrier Control:	FB-751P

KRAS is a member of the small GTPase superfamily. A single amino acid substitution is responsible for an activating mutation. The transforming protein that results is implicated in various malignancies, including lung adenocarcinoma, mucinous adenoma, ductal carcinoma of the pancreas and colorectal carcinoma.

LAG3



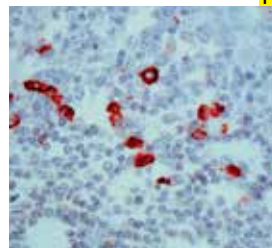
Tonsil stained with Anti-LAG3 using DAB chromogen

Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: Lymphocyte activation gene 3 protein precursor recombinant protein epitope signature tag (PrEST)
 Specificity: Human LAG3
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR917-5R (ASR)
Ready-to-Use (Automated): i6000™ Xmatrix®	AR917-10R (RUO) AW917-YCD, AW917-50D (RUO)
Concentrated:	PU917-UP, PU917-5UP PU917-1UP (ASR)
Recommended Positive Control:	FG-917P
Recommended Barrier Control:	FB-917P

LAG-3 (Lymphocyte Activation Gene 3) or CD223 belongs to the Ig superfamily and has high homology to CD4. LAG-3 is an inhibitory T-cell surface molecule that has been found to directly modulate T-cell homeostasis. LAG3 is expressed on populations of activated T cells, such as Tregs and natural killer (NK) cells, and some monocyte-derived cell populations. LAG3 negatively regulates cellular proliferation, activation, and homeostasis of T cells, and has been reported to play a role in Treg suppressive function. LAG3 is often co-expressed with PD-1 on the surface of tumor infiltrating lymphocytes, where the two proteins act independently to synergistically promote tumoral immune escape. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

Lambda Light Chain



Tonsil stained with Anti-lambda light chain using DAB chromogen

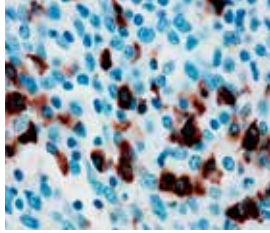
Clone: Polyclonal
 Source: Rabbit
 Immunogen: Pool of human lambda Bence Jones proteins
 Specificity: Lambda light chains
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR049-5R
Ready-to-Use (Automated): i6000™ Xmatrix®	AR049-10R AW049-YCD, AW049-50D
Concentrated:	PU049-UP, PU049-5UP
Recommended Positive Control:	FG-049P
Recommended Barrier Control:	FB-049P

The light chains of immunoglobulin molecules may be either Kappa or Lambda. Antibodies to kappa and lambda light chains are used for the evaluation of leukemias, plasmacytomas, and certain non-Hodgkin's lymphomas, the majority of which are derived from B-cell lineage. The most important uses of this technique would be in distinguishing atypical reactive follicular lymphoid hyperplasia from follicular lymphoma, undifferentiated carcinoma from large cell lymphoma, pseudolymphoma from lymphoma, and reactive plasmacytosis from well differentiated plasmacytoma.



Lambda Light Chain ^P



Tonsil stained with anti-Lambda using DAB chromogen

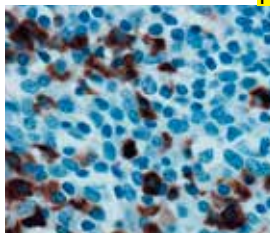
Clone: EP172
 Isotype: IgG
 Source: Rabbit
 Immunogen: A recombinant protein fragment corresponding to human IgA protein
 Specificity: Human IgA protein
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN715-5M
Ready-to-Use (Automated):	
i6000™	AN715-10M
Xmatrx®	AY715-YCD, AY715-50D
Concentrated:	NU715-UC, NU715-5UC
Recommended Positive Control:	FG-715N
Recommended Barrier Control:	FB-715N

The basic structure of an immunoglobulin molecule consists of two identical heavy chains, either γ , μ , α , δ or ϵ and two identical light chains, either kappa or lambda.

The gene rearrangement process that generates the immunoglobulin molecule results in either a productive kappa or lambda gene. The ratio of kappa and lambda light chains varies between Ig classes and subclasses. The lambda light chain antibody labels the lambda light chain that expresses normal and neoplastic B lymphocytes and plasma cells. Other cells may also express lambda light chain due to nonspecific uptake of immunoglobulin. The occurrence of a mixture of kappa and lambda chain expressing cells suggests a polyclonal population and a reactive or non-neoplastic proliferation of B cells.

Lambda Light Chain ^P



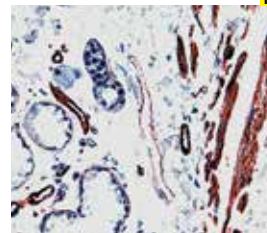
Tonsil stained with anti-Human Lambda Light Chain using DAB chromogen

Clone: SP147
 Isotype: IgG
 Source: Rabbit
 Immunogen: Recognizes the lambda immunoglobulin light chain, which comprises approximately 40% of light chain in the human
 Specificity: Human Lambda Light Chain
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AN763-5M
Ready-to-Use (Automated):	
i6000™	AN763-10M
Xmatrx®	AY763-YCD, AY763-50D
Concentrated:	NU763-UC, NU763-5UC
Recommended Positive Control:	FG-763N
Recommended Barrier Control:	FB-763N

The basic structure of an immunoglobulin molecule consists of two identical heavy chains, either γ , μ , α , δ or ϵ and two identical light chains, either kappa or lambda. The gene rearrangement process that generates the immunoglobulin molecule results in either a productive kappa or lambda gene. The ratio of kappa and lambda light chains varies between Ig classes and subclasses. The lambda light chain antibody labels the lambda light chain that expresses normal and neoplastic B lymphocytes and plasma cells. Other cells may also express lambda light chain due to nonspecific uptake of immunoglobulin. The occurrence of a mixture of kappa and lambda chain expressing cells suggests a polyclonal population and a reactive or non-neoplastic proliferation of B cells.

Laminin ^P



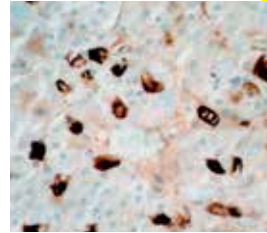
Lung stained with Anti-laminin using DAB chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: Laminin isolated from EHS-mouse sarcoma
 Specificity: Laminin
 Localization: Basement Membrane
 Pre-treatment: EZ-AR1 elegance
 Manual/i6000: HK546-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AR078-5R
Ready-to-Use (Automated):	
i6000™	AR078-10R
Xmatrx®	AW078-YCD, AW078-50D
Concentrated:	PU078-UP, PU078-5UP
Recommended Positive Control:	FG-078P
Recommended Barrier Control:	FB-078P

The antibody to laminin selectively and specifically recognizes basement membrane components. Laminin consists of a 220 kD subunit, which is disulfide-linked into larger complexes or even into the structural scaffolding of the basement membrane itself. In surgical pathology, laminin can be used as a marker to demonstrate morphologic change of basement membrane, which is helpful for interpreting the invasion of malignant tumors. Laminin could also be used to study histogenesis and pathogenesis of certain unknown lesions such as extracellular and intracellular hyaline bodies occurring in various diseases. This antibody stains Laminin in basement membranes.

Luteinizing Hormone ^P



Pituitary stained with anti-Human Luteinizing Hormone using DAB chromogen

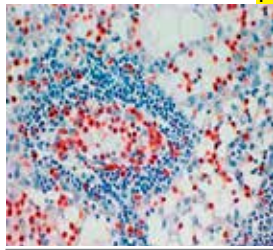
Clone: SP132
 Isotype: IgG
 Source: Rabbit
 Immunogen: Recombinant human LH protein
 Specificity: Human Luteinizing Hormone
 Localization: Cytoplasm, surface and Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN787-5M
Ready-to-Use (Automated):	
i6000™	AN787-10M
Xmatrx®	AY787-YCD, AY787-50D
Concentrated:	NU787-UC, NU787-5UC
Recommended Positive Control:	FG-787N
Recommended Barrier Control:	FB-787N

Luteinizing hormone (LH, also known as lutropin) is a tropic hormone which modulates the secretory activity of other endocrine glands. LH functions to stimulate ovulation, corpus luteum formation, estrogen and progesterone synthesis by the ovary and androgen synthesis by the interstitial cells of the testes. It is produced in the anterior hypophysis of the pituitary gland. The glycoprotein hormone, LH, like follicle stimulating hormone and thyroid stimulating hormone, is composed of a common alpha-subunit but also a specific beta-subunit, which characterizes each of these hormones.



Lysozyme



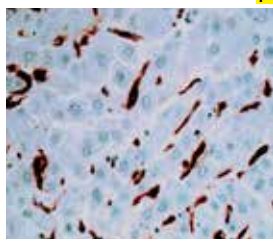
Lymph Node stained with anti-lysozyme using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: Lysozyme isolated from the urine of monocytic leukemia patients
 Specificity: Lysozyme
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR024-5R
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AR024-10R AW024-YCD, AW024-50D
Concentrated:	PU024-UP, PU024-5UP
Recommended Positive Control:	FG-024P
Recommended Barrier Control:	FB-024P

Lysozyme (also called muramidase) is an enzyme which acts on bacterial cell walls by cleaving N-acetyl-glucosaminyl-N-acetylmuramic acid linkages. Lysozyme is present in human milk, tears, saliva, and serum. It is also found in myeloid cells, monocytes and histiocytes, making it useful for the demonstration of the myeloid or monocytic nature of acute leukemia. This antibody stains the cytoplasm of granulocytes and monocytes/macrophages.

Macrophage



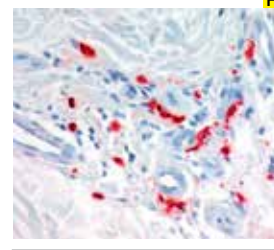
Kupffer cells stained with anti-Macrophage using DAB chromogen

Clone: LN5
 Isotype: IgM
 Source: Mouse
 Immunogen: Human peripheral blood cells
 Specificity: Macrophages
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM165-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM165-10M AX165-YCD, AX165-50D
Concentrated:	MU165-UC, MU165-5UC
Recommended Positive Control:	FG-165M
Recommended Barrier Control:	FB-165M

LN5 stains an unidentified antigen in cytoplasm of macrophages and histiocytes in hematopoietic organs. It stains mantle zone B lymphocytes of the lymph node and spleen, spermatogonia, chief cells of the stomach, ductal epithelium of breast and tubular epithelium of kidney. It is strongly reactive with cases of true histiocytic lymphoma but is negative, except for macrophages, in Hodgkins disease and non-Hodgkins lymphomas. It can be an important tool for the study of malignant and benign histiocytic lesions. This antibody stains the cytoplasm of a specific population of human macrophage and histiocytes.

Mast Cell Tryptase



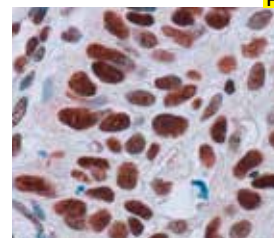
Mast cell in the dermis highlighted by Mast Cell Tryptase antibody using AEC chromogen

Clone: AA1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human Mast Cell Tryptase purified from human lung tissue
 Specificity: Mast Cell Tryptase antigen
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM419-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM419-10M AX419-YCD, AX419-50D
Concentrated:	MU419-UC, MU419-5UC
Recommended Positive Control:	FG-419M
Recommended Barrier Control:	FB-419M

The monoclonal antibody produced by clone AA1 reacts with human Mast Cell Tryptase in different tissues. Relatively high levels of the enzyme are found in mast cells of skin and lung. Tryptase, a structurally unique trypsin like serine protease, is a biochemical marker that has proven useful for disorders that involve systemic mast cell activation. It is shown to be implicated as a potential mediator in the pathology of several mast cell related allergic and inflammatory conditions, including rhinitis, conjunctivitis, and most notably asthma. This antibody stains Mast Cell Tryptase antigen in cytoplasm of mast cells in skin, lung and tonsil tissues.

MCM2



Cervical cancer tissue stained with anti-Human MCM2 using DAB chromogen

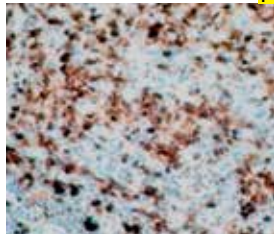
Clone: SP85
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide derived from internal region of human MCM2 protein.
 Specificity: Human MCM2
 Localization: Nuclear
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN773-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN773-10M AY773-YCD, AY773-50D
Concentrated:	NU773-UC, NU773-5UC NU773-1UC
Recommended Positive Control:	FG-773N
Recommended Barrier Control:	FB-773N

The protein encoded by this gene is one of the highly conserved minichromosome maintenance proteins (MCM). MCM2 (Minichromosome maintenance protein 2) is involved in the initiation of eukaryotic genome replication. MCM2 (also called CDCL1, mitotin and BM28), is a human nuclear protein that is crucial in the cell cycle, being involved in the onset of DNA replication and cell division. It is similar to members of the family of early S-phase proteins. Mincheva et al. (1994) mapped the gene to 3q21. From its localization, CDCL1 became a candidate for an oncogene affected by chromosomal breaks in acute myeloid leukemia (AML).



MCM2



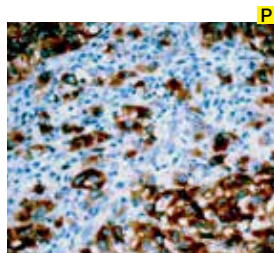
Tonsil stained with anti-Human MCM2 using DAB chromogen

Clone: EP40
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in human MCM2 protein
 Specificity: Human MCM2
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN834-5M
Ready-to-Use (Automated):	
i6000™	AN834-10M
Xmatrx®	AY834-YCD, AY834-50D
Concentrated:	NU834-UC, NU834-5UC
	NU834-1UC
Recommended Positive Control:	FG-834N
Recommended Barrier Control:	FB-834N

MCM2 also known as DNA replication licensing factor is a member of the MCM family that regulates mammalian DNA replication. This family is composed of six related subunits, called the hexameric MCM2-7 complex, that are conserved in all eukaryotes. It functions as a replicative helicase, the molecular motor that both unwinds duplex DNA and powers fork progression during DNA replication. In the cell cycle, levels of the MCM family gradually increase in a variable manner from G0 into the G1/S phase. In the G0 stage, the amounts of MCM2 and MCM5 proteins are much lower than that of MCM7 and MCM3 proteins, so some of them participate in cell cycle regulation. MCM2 is localized in the nucleus throughout interphase. It is required for entry into the S phase and cell division. Anti-MCM2 labels proliferating cells in normal and tumor tissue. MCM2 has been used as a proliferation marker superior to Ki-67 for identification of premalignant lesions in colon, lung and other epithelial tissues. In addition, the MCM2 antibody is helpful in the distinction of malignant mesothelioma (higher labeling index) from reactive mesothelial proliferation.

Melan-A (MART-1)



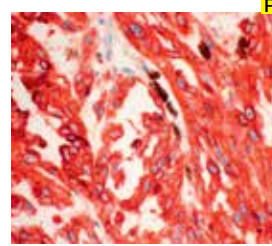
Melanoma stained with Anti-Melan-A using DAB chromogen

Clone: A103
 Isotype: IgG
 Source: Mouse
 Immunogen: Recombinant Melan-A protein
 Specificity: Melan-A or MART-1
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM361-5M
Ready-to-Use (Automated):	
i6000™	AM361-10M
Xmatrx®	AX361-YCD, AX361-50D
Concentrated:	MU361-UC, MU361-5UC
	MU361-1UC
Recommended Barrier Control:	FB-361M
Recommended Positive Control:	FG-361M

Melan-A, a product of the MART-1 gene, is a differentiation antigen which is expressed in 100% of melanocytes, most melanomas, and 50-60% of melanoma cell lines. It is one of the melanoma antigens recognized by autologous cytotoxic T cells, and as an antigenic target for tumor infiltrating lymphocytes. This antibody also stains Melan-A in normal melanocytes and in the retina. It does not stain normal or tumor tissues from non-melanocyte lineages. This antibody stains positive in cytoplasm of melanocytes and other positive cells.

Melanoma



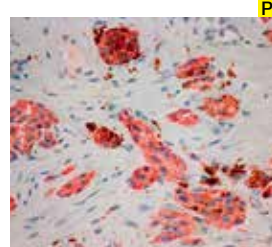
Melanoma tumor cells positive for melanoma antigen stained using AEC chromogen

Clone: HMB45
 Isotype: IgG1
 Source: Mouse
 Immunogen: Metastatic malignant melanoma cells
 Specificity: Malignant melanoma
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM001-5M
Ready-to-Use (Automated):	
i6000™	AM001-10M
Xmatrx®	AX001-YCD, AX001-50D
Concentrated:	MU001A-UC, MU001A-5UC
Recommended Positive Control:	FG-001M
Recommended Barrier Control:	FB-001M

Metastatic melanoma is often confused with a variety of poorly differentiated carcinomas, sarcomas, and large cell lymphomas. Clone HMB45 reacts with fetal and neonatal melanocytes but not with normal adult melanocytes and junctional nevus cells but not with intradermal nevi, hence showing specificity for detection of melanocytic tumors. The panel of tumor markers, most commonly used in conjunction with HMB45, for evaluation of melanoma includes S-100 protein LCA, CEA, and EMA, as well as vimentin, an intermediate filament found in both melanomas and sarcomas.

Melanoma gp100



Melanoma tissue stained with Anti-Melanoma gp100 using AEC chromogen

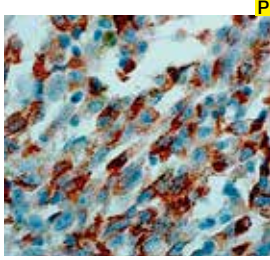
Clone: gp100/D5
 Isotype: IgG1/K
 Source: Mouse
 Immunogen: Human melanoma gp100
 Specificity: Melanoma gp100
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM536-5M
Ready-to-Use (Automated):	
i6000™	AM536-10M
Xmatrx®	AX536-YCD, AX536-50D
Concentrated:	MU536-UC, MU536-5UC
Recommended Positive Control:	FG-536M
Recommended Barrier Control:	FB-536M

Melanoma gp100/D5 is a mouse monoclonal antibody that reacts against an antigen present in melanocytic tumors such as melanomas. It reacted positively against melanocytic tumors but not other tumors, thus demonstrating specificity and sensitivity. This antibody is very useful to identify malignant melanoma. Metastatic amelanotic melanoma can often be confused with a variety of poorly differentiated carcinomas, large cell lymphomas, sarcomas, spindle cell carcinomas and various types of mesenchymal neoplasms.



Melanoma Associated Antigen



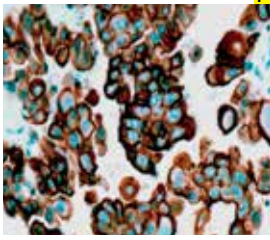
Melanoma stained with Anti-Melanoma associated antigen using DAB chromogen

Clone: NK1/C3
 Isotype: IgG1
 Source: Mouse
 Immunogen: Purified membranes of human melanoma cells
 Specificity: NK1/C3 antigen
 Localization: Membrane & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM077-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM077-10M AX077-YCD, AX077-50D
Concentrated:	MU077-UC, MU077-5UC MU077-1UC
Recommended Positive Control:	FG-077M
Recommended Barrier Control:	FB-077M

The melanoma associated antigen is a formalin resistant glycoprotein with a disulphide dependent configuration that is essential for recognition by the NK1/C3 monoclonal antibody. This antibody recognizes a heterogeneous 25-110 kD glycoprotein that is located mainly in the inner side of membranes of cytoplasmic vesicles in melanoma cells. This antibody reacts with melanoma, nevocellular nevi, carcinoids and medullary carcinomas of the thyroid. It does not react with basal cell carcinoma, brain tissue or brain tumors.

Mesothelin



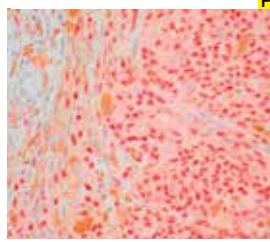
Ovary adenoma stained with anti-Mesothelin using DAB chromogen

Clone: 5B2
 Isotype: IgG1
 Source: Mouse
 Immunogen: Prokaryotic recombinant fusion protein corresponding to approximately 100 amino acids from membrane bound form of mesothelin.
 Specificity: Mesothelin
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM433-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM433-10M AX433-YCD, AX433-50D
Concentrated:	MU433-UC, MU433-5UC MU433-1UC
Recommended Positive Control:	FG-433M
Recommended Barrier Control:	FB-433M

Mesothelin, a 40kD glycosyl-phosphatidylinositol-linked cell surface glycoprotein, is present on the surface of the mesothelial cells and may be involved in cell adhesion. It is also seen on mesotheliomas, epithelial ovarian cancers, and some squamous cell carcinomas. Clone 5B2 reactivity has been seen in epitheloid mesotheliomas and adenocarcinomas of lung, ovary, peritoneum, endometrium, pancreas, stomach and colon to a varying degree. Mesothelin is abundant in normal mesothelial cells from which malignant mesotheliomas and ovarian cystadenocarcinomas are derived. This antibody can be used in conjunction with an antibody to calretinin for evaluation of mesotheliomas.

MiTF



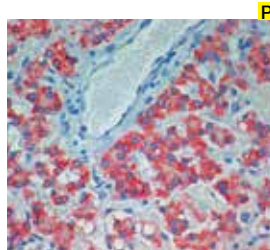
Melanoma tissue stained with Anti-MiTF using AEC chromogen

Clone: MiTF/A13
 Isotype: IgG1/k
 Source: Mouse
 Immunogen: Human MiTF
 Specificity: MiTF
 Localization: Nuclear
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM554-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM554-10M AX554-YCD, AX554-50D
Concentrated:	MU554-UC, MU554-5UC
Recommended Positive Control:	FG-554M
Recommended Barrier Control:	FB-554M

Microphthalmia-associated Transcription Factor (MiTF) is a basic helix-loop-helix leucine zipper transcription factor involved in melanocyte and osteoclast development. Mutations in MiTF cause auditory pigmentary syndromes, such as Waardenburg Syndrome Type II, Type IIa and Tietz Syndrome in humans. MiTF plays a critical role in the differentiation of various cell types such as neural crest-derived melanocytes, mast cells, osteoclasts and optic cup-derived retinal pigment epithelium. This antibody recognizes serine phosphorylated and non-phosphorylated melanocytic isoforms of microphthalmia. It is useful in identifying malignant melanoma, and distinguishing mast cell lesions of myeloid derivation. A relatively rare class of tumors known as PComas (tumors showing perivascular epitheloid cell differentiation) express MiTF in a high percentage of cases (~90%).

Mitochondrial Antigen



Fetal Liver tissue stained with Anti-Mitochondrial Ag using AEC chromogen

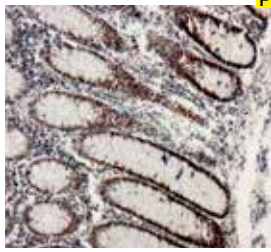
Clone: 113-1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Raji Burkitt's lymphoma cells
 Specificity: Mitochondria
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM213-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM213-10M AX213-YCD, AX213-50D
Concentrated:	MU213-UC, MU213-5UC
Recommended Positive Control:	FG-213M
Recommended Barrier Control:	FB-213M

Monoclonal antibody 113-1 recognizes a 60 kD antigen of human mitochondria. This marker may be useful in identification of mitochondria in cells, tissues, and biochemical preparations. It produces a "spaghetti-like" staining pattern in the cytoplasm of human cells and may be used as a marker of biliary cirrhosis. The antibody stains mitochondria in the cytoplasm of positive cells.



Mismatch Protein Repair (MLH1)



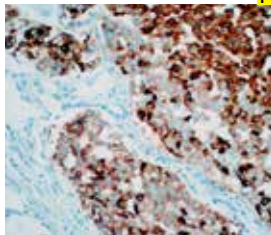
Human colon stained with Anti-MLH1 using DAB chromogen

Clone: ES05
 Isotype: IgG1
 Source: Mouse
 Immunogen: MLH1
 Specificity: MLH1
 Localization: Nuclei
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM703-5M
Ready-to-Use (Automated):	AM703-10M
i6000™	AM703-10M
Xmatrix®	AX703-YCD, AX703-50D
Concentrated:	MU703-UC, MU703-5UC
	MU703-1UC
Recommended Positive Control:	FG-703M
Recommended Barrier Control:	FB-703M

MLH1 is a mismatch repair protein involved in maintaining the integrity of genetic information alongside MSH2, MSH6 and PMS2. During DNA replication, strand misalignment can occur resulting in alterations to microsatellite repeats, often referred to as microsatellite instability (MSI). These defects in DNA repair pathways have been linked to human carcinogenesis. Mutations in the MLH1 gene have been reported to be found in tumors with MSI, such as some forms of colon cancer e.g., Hereditary nonpolyposis colon cancer (HNPCC), a subset of sporadic carcinomas and breast cancer.

Mucin 1 (MUC1)



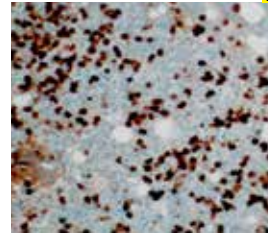
Breast cancer tissue stained with anti-Human MUC1 using DAB chromogen

Clone: EP85
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the C-terminus of human MUC1 protein
 Specificity: Human MUC1
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN813-5M
Ready-to-Use (Automated):	AN813-10M
i6000™	AN813-10M
Xmatrix®	AY813-YCD, AY813-50D
Concentrated:	NU813-UC, NU813-5UC
Recommended Positive Control:	FG-813N
Recommended Barrier Control:	FB-813N

MUC1 is expressed in many types of epithelial cells in the gastrointestinal tract, lung, breast, pancreas and genitourinary tract. MUC1 is also detected in activated and unactivated T-cells. In some tumors derived from epithelial cells, MUC1 expression is associated with tumor type and invasiveness. MUC1 expression has been correlated with invasive growth of ductal carcinomas (IDC) in the pancreas and cholangiocarcinomas in the liver. MUC2 expression has been associated with the intraductal papillary mucinous tumors of the pancreas, a noninvasive carcinoma. Additionally, MUC1 antibody aids in the prediction of the aggressiveness of carcinomas of the breast, stomach, colon, ampulla of Vater and renal cell carcinoma. Strong correlation has been observed between MUC1 expression and breast cancer progression.

MMP-9



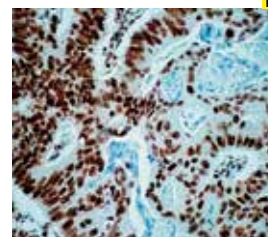
Bone marrow stained with anti-Human MMP-9 using DAB chromogen

Clone: EP127
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human MMP-9 protein
 Specificity: Human MMP-9
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN816-5M
Ready-to-Use (Automated):	AN816-10M
i6000™	AN816-10M
Xmatrix®	AY816-YCD, AY816-50D
Concentrated:	NU816-JC, NU816-5UC
	NU816-1UC
Recommended Positive Control:	FG-816N
Recommended Barrier Control:	FB-816N

Matrix metalloproteinases (MMPs), a family of peptidase enzymes, plays a critical role in degradation of extracellular matrix components in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes. MMP-9, also designated as 92-kDa Type IV Collagenase or gelatinase B is a member of MMPs, which is produced as a 92-kDa pro-enzyme by neutrophils and macrophages as a normal constituent and released into the extracellular environment after activation in inflammatory tissues. MMP-9 is predominantly expressed in neutrophils, macrophages, mast cells and stromal cells. The expression levels of MMP-9 in tumors are elevated compared with the corresponding normal tissues in a variety of cancer types, including breast, colon, gastric and nasopharyngeal cancers.

MSH2



Colon cancer tissue stained with anti-MSH2 using DAB chromogen

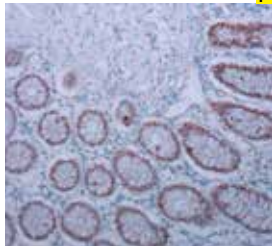
Clone: SP46
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to internal region of human MSH2
 Specificity: Human MSH2
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN743-5M
Ready-to-Use (Automated):	AN743-10M
i6000™	AN743-10M
Xmatrix®	AY743-YCD, AY743-50D
Concentrated:	NU743-UC, NU743-5UC
Recommended Positive Control:	FG-743N
Recommended Barrier Control:	FB-743N

MutS homologue 2 (MSH2) is a DNA mismatch repair protein that belongs to the MutS family. MSH2 forms two different heterodimers: MutS alpha (MSH2-MSH6) and MutS beta (MSH2-MSH3), which bind to DNA mismatches thereby initiating DNA repair. MSH2 is involved in DNA repair as a mismatch repair protein, and mutations of MSH2 are found in approximately 50% of inherited non polyposis colorectal carcinoma (HNPCC) (Lynch syndrome) cases. HNPCC is an autosomal, dominantly inherited disease associated with marked increase in cancer susceptibility. It is characterized by a familial predisposition to early onset colorectal carcinoma and extra-colonic cancers of the gastrointestinal, urological and female reproductive. Immunohistochemical analysis of MSH2 expression has been reported to be a practical and reliable method for the routine detection of the vast majority of MSI-H colorectal adenocarcinomas.



MSH2



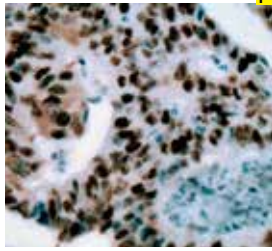
Colon cancer tissue stained with anti-MSH2 using DAB chromogen

Clone: RED2
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues of human MSH2
Specificity: Human MSH2
Localization: Nucleus
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN744-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN744-10M
Xmatrix [®]	AY744-YCD, AY744-50D
Concentrated:	NU744-UC, NU744-5UC
	NU744-1UC
Recommended Positive Control:	FG-744N
Recommended Barrier Control:	FB-744N

MutS homologue 2 (MSH2) is a DNA mismatch repair protein that belongs to the MutS family. MSH2 forms two different heterodimers: MutS alpha (MSH2-MSH6) and MutS beta (MSH2-MSH3), which bind to DNA mismatches thereby initiating DNA repair. MSH2 is involved in DNA repair as a mismatch repair protein, and mutations of MSH2 are found in approximately 50% of inherited non polyposis colorectal carcinoma (HNPCC) (Lynch syndrome) cases. HNPCC is an autosomal, dominantly inherited disease associated with marked increase in cancer susceptibility. It is characterized by a familial predisposition to early onset colorectal carcinoma and extra-colonic cancers of the gastrointestinal, urological and female reproductive. Immunohistochemical analysis of MSH2 expression has been reported to be a practical and reliable method for the routine detection of the vast majority of MSI-H colorectal adenocarcinomas.

MSH6



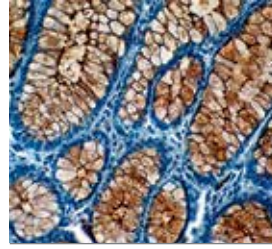
Colon carcinoma stained with Anti-MSH6 using DAB chromogen

Clone: 2D4B5
Isotype: IgG3
Source: Mouse
Immunogen: Human MSH6
Specificity: MSH 6
Localization: Nucleus
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM454-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM454-10M
Xmatrix [®]	AX454-YCD, AX454-50D
Concentrated:	MU454-UC, MU454-5UC
Recommended Positive Control:	FG-454M
Recommended Barrier Control:	FB-454M

Mouse anti-MSH6 is a monoclonal antibody specific for MSH6. Inherited (germline) mutations in DNA mismatch repair genes such as MLH1, MSH2, MSH3, and MSH6 are the major causes of hereditary nonpolyposis colorectal cancer (HNPCC) syndrome. A characteristic of HNPCC tumors is microsatellite instability (MSI). Detection of microsatellite instability in a tumor sample will increase the probability of detecting a germline mutation in a DNA mismatch repair gene from the patient sample. Thus, MSI analysis is usually performed prior to proceeding with full mutation analysis of mismatch repair genes.

MUC4



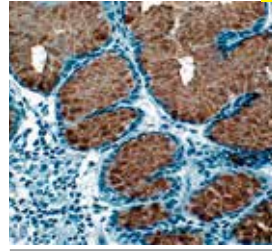
Colonic mucosa stained with MUC4 antibody showing diffuse cytoplasmic positivity. (DAB chromogen used)

Clone: 1G8
Isotype: IgG1
Source: Mouse
Immunogen: Human MUC4
Specificity: MUC4
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM455-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM455-10M
Xmatrix [®]	AX455-YCD, AX455-50D
Concentrated:	MU455-UC, MU455-5UC
	MU455-1UC
Recommended Positive Control:	FG-455M
Recommended Barrier Control:	FB-455M

MUC4 is a membrane-associated protein of the mucin (MUC) gene family, encoded by a gene on chromosome 3q29 and produced by epithelial cells as a heterodimer. The MUC4 protein is thought to play a protective role for vulnerable epithelia, particularly in the airway, eye, female reproductive tract, and mammary gland. Alterations in MUC4 expression have been observed in association with a variety of inflammatory and neoplastic states; reduction or loss has been reported in non-small cell lung carcinoma, hyperplastic polyps of the colon, and serrated colon adenomas, while overexpression of the MUC4/Sialomucin complex (SMC) has been identified in malignant progression of mammary tumors in humans.

MUC5AC



Gastro-intestinal tissue stained with Anti-MUC5AC using DAB chromogen

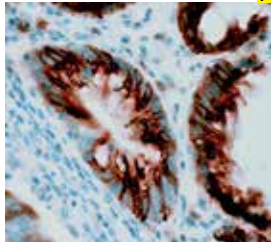
Clone: 45M1
Isotype: IgG1
Source: Mouse
Immunogen: Human MUC5AC
Specificity: MUC5AC
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM456-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM456-10M
Xmatrix [®]	AX456-YCD, AX456-50D
Concentrated:	MU456-UC, MU456-5UC
Recommended Positive Control:	FG-456M
Recommended Barrier Control:	FB-456M

Mucins are high molecular weight glycoproteins with 80% carbohydrates and 20% core protein. Gastric Mucin 5AC antigen is found in columnar mucus cells of surface gastric epithelium and in goblet cells of the fetal and precancerous colon but not in normal colon. Resurgence of gastric mucin during colonic carcinogenesis is suggestive of either re-expression of the peptide core of gastric mucin in the adult colon or due to changes in the glycosylation pattern of mucin, which expose the hidden Mucin 5AC antigen.



Mucin 2 (MUC2)



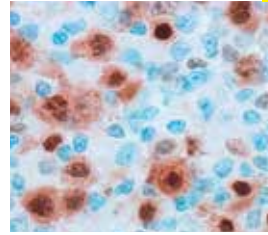
Colon stained with Anti-Mucin 2 using DAB chromogen

Clone: CCP58
Isotype: IgG1
Source: Mouse
Immunogen: Synthetic human MUC2 (MI-29) peptide (VNTR region)
Specificity: MUC2
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM358-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM358-10M AX358-YCD, AX358-50D
Concentrated:	MU358-UC, MU358-5UC
Recommended Positive Control:	FG-358M
Recommended Barrier Control:	FB-358M

Mucins are a group of high molecular weight, highly glycosylated proteins expressed in normal and carcinogenic colon. MUC2 is a 520-kD glycoprotein of the gastrointestinal tract. The core of the glycoprotein consists of a variable number of tandem repeats of a 23 amino acid sequence. Mucin 2 is found in normal epithelial cells of the colon or in colon carcinoma. MUC2 glycoprotein is expressed in mucinous tumors but not in serous tumors. This antibody stains positive for colon gastric cancer cells, normal intestine, colon and salivary glands, and some human colon carcinoma cell lines (LS174T). This antibody localizes Mucin 2 (MUC2) protein in cytoplasm.

Mum1/IRF4



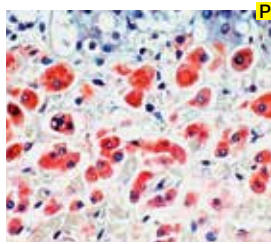
Hodgkin's lymph node stained with anti-Human Mum1/IRF4 using DAB chromogen

Clone: SP114
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide near C-terminus of human MUM1/IRF4
Specificity: Human Mum1/IRF4
Localization: Nuclear
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN750-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AN750-10M AY750-YCD, AY750-50D
Concentrated:	NU750-UC, NU750-5UC NU750-1UC
Recommended Positive Control:	FG-750N
Recommended Barrier Control:	FB-750N

MUM1/IRF4 protein is a member of the interferon regulatory factor (IRF) family of transcriptional factors initially described as downstream regulators of interferon signaling. The quantity of this factor varies within the hematopoietic system in a lineage and stage-specific way. It is considered to be a key regulator of several steps in lymphoid, myeloid, and dendritic cell differentiation and maturation. MUM1/IRF4 expression is observed in many lymphoid and myeloid malignancies, and may be a promising target for the treatment of some of these neoplasms. MUM1 is a valuable marker for understanding and characterizing histogenesis of B-cell lymphomas. It is an excellent marker for Reed-Sternberg cells of classic Hodgkin's disease.

Multi-Drug Resistance Marker (P-Glycoprotein)



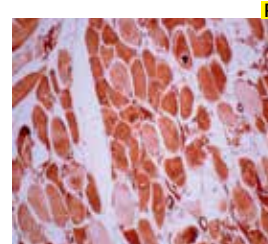
Adrenal gland tissue stained with Anti-multi-drug resistance marker using AEC chromogen

Clone: MDR88
Isotype: IgG1 Kappa
Source: Mouse
Immunogen: Recombinant P-glycoprotein containing four tandem repeats of the amino acid sequence 1096 through 1252, once of the cytoplasmic domains near the C-terminus
Specificity: Multi-Drug Resistance Marker
Localization: Membrane & Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM391-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM391-10M AX391-YCD, AX391-50D
Concentrated:	MU391-UC, MU391-5UC MU391-1UC
Recommended Positive Control:	FG-391M
Recommended Barrier Control:	FB-391M

Multi-Drug Resistance Marker (P-Glycoprotein) is a 170 kD cell membrane protein of the multi-drug resistance gene, MDR-1. Studies have linked the presence of P-Glycoprotein with resistance to a wide variety of chemotherapeutic agents. P-Glycoprotein is associated with an efflux pump that actively removes drug from the cell, thereby conferring resistance to a variety of drugs. P-Glycoprotein is also found in various concentrations in most normal tissues, suggesting that the primary role for this protein is in normal secretion of physiological metabolites. This antibody stains P-Glycoprotein in membrane and certain degree of cytoplasm of positive cells.

Muscle Actins



Muscle tissue stained with Anti-Actin, Muscle Specific, using DAB chromogen

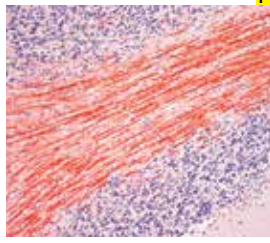
Clone: Actin 88 Cocktail
Isotype: IgG
Source: Mouse
Immunogen: Synthetic peptides of actin
Specificity: Muscle actins
Localization: Cytoplasm
Pre-treatment: EZ-EZ-AR1 elegance
Manual/i6000: None
Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM381-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM381-10M AX381-YCD, AX381-50D
Concentrated:	MU381-UC, MU381-5UC MU381-1UC
Recommended Positive Control:	FG-381M
Recommended Barrier Control:	FB-381M

Actin is a major component of the cytoskeleton and is present in every cell type. It is a globular protein, about 5 nm in diameter, composed of one polypeptide chain with a mass of approximately 47 kD. Four muscle actins have been identified: skeletal alpha, cardiac alpha, vascular smooth muscle alpha, and enteric smooth muscle gamma actin. These actins are very similar in their primary structure. Monoclonal Actin 88 is for the specific localization of actins in muscle tissue. Staining with this antibody distinguishes smooth muscle cells from fibroblasts in mixed cultures. This antibody stains skeletal, cardiac and smooth muscle cells.



Myelin Basic Protein



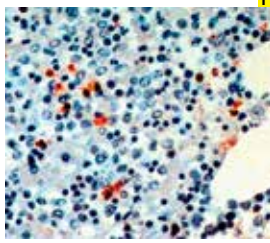
Cerebellum tissue stained with Anti-Myelin basic protein using AEC chromogen

Clone: MBP88
Isotype: IgG1
Source: Mouse
Immunogen: This antibody is the fusion product of SP/2 myeloma cells and the splenocytes from an A/J mouse immunized with peptide of Myelin Basic Protein
Specificity: Myelin Basic Protein
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM380-5M
Ready-to-Use (Automated):	
i6000™	AM380-10M
Xmatrix®	AX380-YCD, AX380-50D
Recommended Positive Control:	FG-380M
Recommended Barrier Control:	FB-380M

Myelin Basic Protein (MBP), a single-chain, flexible polypeptide of about 18.5 kD is localized in both the compact myelin sheath and myelin ovoids. MBP has not been demonstrated in rough endoplasmic reticulum, lysosomes, or any other cytoplasmic organelles. MBP can be used as a marker for oligodendrocytes, Schwann cells and malignant Schwannomas. This antibody is useful in defining some of the elements in the catabolism of myelin in multiple sclerosis, experimental encephalomyelitis, and other diseases of the central nervous system. This antibody stains Myelin Basic Protein.

Myeloid Specific Antigen



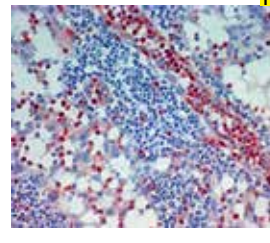
Bone marrow stained with Anti-Myeloid Specific Antigen using Fast Red chromogen

Clone: BM-3
Isotype: IgG1
Source: Mouse
Immunogen: Nuclei from pokeweed mitogen stimulated human peripheral blood lymphocytes
Specificity: Myeloid Specific Antigen
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM216-5M
Ready-to-Use (Automated):	
i6000™	AM216-10M
Xmatrix®	AX216-YCD, AX216-50D
Recommended Positive Control:	FG-216M
Recommended Barrier Control:	FB-216M

BM-3 is an early marker of myeloid differentiation. BM-3 recognizes a 13 kD myeloid specific antigen. The BM-3 antibody along with BM-1 and BM-2, provides the capacity to stain early precursor and mature forms of human myeloid cells. It is expressed during the early phases of myeloid differentiation. This antigen is present in human granulocytes, monocytes, and myeloid precursor cells. It has no reactivity with any other cell type in human tissues. This antibody stains cytoplasm in human granulocytes (98%) and monocytes (80%) residing in lymphoid and non-lymphoid tissues in formalin-fixed, paraffin-embedded tissue sections, bone marrow smears or blood smears.

Myeloid Specific Antigen



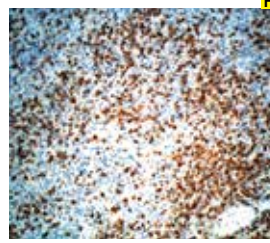
Lymph node stained with Anti-Myeloid Specific Antigen using AEC chromogen

Clone: BM-1
Isotype: IgG1
Source: Mouse
Immunogen: Nuclei from human peripheral blood mononuclear cells
Specificity: Myeloid Specific Antigen
Localization: Cytoplasm
Pre-treatment: None
Manual/i6000: None
Xmatrix: None

Ready-to-Use (Manual):	AM164-5M
Ready-to-Use (Automated):	
i6000™	AM164-10M
Xmatrix®	AX164-YCD, AX164-50D
Concentrated:	MU164-UC, MU164-5UC
Recommended Positive Control:	FG-164M
Recommended Barrier Control:	FB-164M

This 183 kD myeloid specific antigen is a DNA binding protein expressed in early precursor myeloid cells. Monoclonal antibodies BM-1 and BM-2 are useful in the identification of early precursor and mature forms of human myeloid cells, respectively. The antigens are also expressed in granulocytic sarcomas and myeloid leukemias, myeloid precursor cells of bone marrow, scattered cells in the peripheral cortex of the thymus, granulocytes, granulocytic sarcomas, acute myelogenous leukemia (AML), chronic myelogenous leukemias and myelomonocytic leukemias. This antibody stains myeloid specific antigen in the nucleus of myeloid precursor cells of bone marrow, scattered cells in the peripheral cortex of the thymus, granulocytes, and granulocytic sarcomas.

Myeloperoxidase (MPO)



Spleen tissue stained with Anti-Myeloperoxidase using DAB chromogen

Clone: Polyclonal
Isotype: IgG
Source: Rabbit
Immunogen: Purified human granulocytic MPO
Specificity: Myeloperoxidase
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

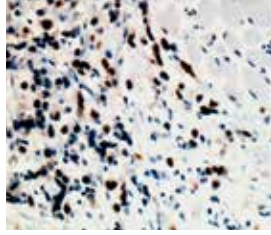
Ready-to-Use (Manual):	AR496-5R
Ready-to-Use (Automated):	
i6000™	AR496-10R
Xmatrix®	AW496-YCD, AW496-50D
Concentrated:	PU496-UP, PU496-5UP
Recommended Positive Control:	FG-496P
Recommended Barrier Control:	FB-496P

Myeloperoxidase is an important enzyme used by granulocytes during phagocytic lysis of foreign particles engulfed. In normal tissues and in a variety of myeloproliferative disorders, myeloid cells of both neutrophilic and eosinophilic types at all stages of maturation, exhibit strong cytoplasmic reactivity for MPO. Erythroid precursors, megakaryocytes, lymphoid cells, mast cells, and plasma cells are nonreactive. MPO is not observed in the neoplastic cells of a wide variety of epithelial tumors and sarcomas. MPO is useful in differentiating between myeloid and lymphoid leukemias.



Myf4 (Myogenin)

P



Rhabdomyosarcoma stained with Anti-Myf4 using DAB chromogen

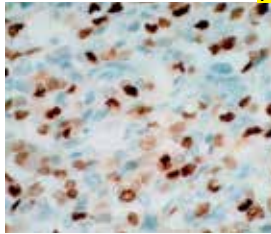
Clone: LO26
 Isotype: IgG1
 Source: Mouse
 Immunogen: Recombinant fusion protein corresponding to the Myf4 gene
 Specificity: Myf4
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM432-5M
Ready-to-Use (Automated):	AM432-10M
i6000™	AX432-YCD, AX432-50D
Xmatrx®	
Concentrated:	MU432-UC, MU432-5UC
	MU432-1UC
Recommended Positive Control:	FG-432M
Recommended Barrier Control:	FB-432M

Myf4 belongs to the family of the muscle regulatory proteins Myf3, Myf4, Myf5, and Myf6 that share a highly conserved DNA binding and dimerization domain consisting of a cluster of basic amino acids and a potential helix-loop-helix structure. Myogenin (Myf4) expressed early in skeletal muscle differentiation is a sensitive and specific marker for rhabdomyosarcoma and is more specific than desmin and muscle-specific actin and more sensitive than myoglobin.

Myogenin

P



Rhabdomyosarcoma stained with anti-Human Myogenin using DAB chromogen

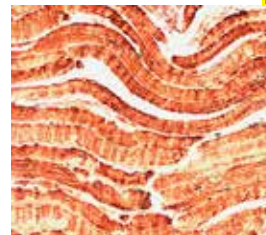
Clone: EP162
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in human Myogenin
 Specificity: Human Myogenin
 Localization: Nuclues
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN789-5M
Ready-to-Use (Automated):	AN789-10M
i6000™	AY789-YCD, AY789-50D
Xmatrx®	NU789-UC, NU789-5UC
Concentrated:	NU789-1UC
Recommended Positive Control:	FG-789N
Recommended Barrier Control:	FB-789N

Myogenic factors are transcription factors consisting of an amino acid rich region and a helix-loop-helix (HLH) structure, which can promote muscle development and maintain muscle-specific gene expression by transactivation. Myogenin, one of the myogenic regulatory factors, plays a key role in determining the commitment and differentiation of primitive mesenchymal cells into skeletal muscle. The expression of Myogenin is restricted to cells of skeletal muscle origin, but it is not detected in adult skeletal muscles. It is therefore considered to be an extremely reliable and specific marker for diagnosing rhabdomyosarcomas.

Myoglobin

P



Skeletal Muscle stained with Anti-Myoglobin using DAB chromogen

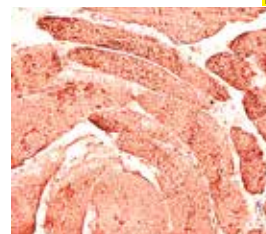
Clone: MG-1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Purified human skeletal muscle myoglobin
 Specificity: Myoglobin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM012-5M
Ready-to-Use (Automated):	AM012-10M
i6000™	AX012-YCD, AX012-50D
Xmatrx®	
Concentrated:	MU012-UC, MU012-5UC
Recommended Positive Control:	FG-012M
Recommended Barrier Control:	FB-012M

Myoglobin functions as a cellular oxygen storage mechanism with some contribution to oxygen transport into the cell. The molecular mass of human myoglobin is 17.8 kD. Myoglobin is present exclusively in striated muscle, with the single exception of chicken gizzard smooth muscle. It is a valuable tool used in distinguishing rhabdomyosarcomas from other soft tissue tumors. After muscle tissue damage such as crush injuries, burns, myocardial infarction and muscle diseases, increased levels of myoglobin are found in the blood and urine. This antibody stains positive in the cytoplasm of muscle cells.

Myoglobin

P



Skeletal muscle stained with Anti-Myoglobin using AEC chromogen

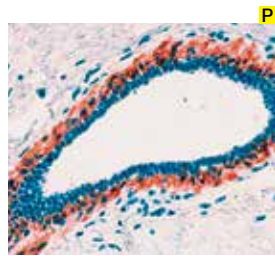
Clone: Polyclonal
 Source: Rabbit
 Immunogen: Highly purified human myoglobin
 Specificity: Myoglobin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR012-5R
Ready-to-Use (Automated):	AR012-10R
i6000™	AW012-YCD, AW012-50D
Xmatrx®	
Concentrated:	PU012-UP, PU012-5UP
Recommended Positive Control:	FG-012P
Recommended Barrier Control:	FB-012P

Myoglobin functions as a cellular oxygen storage mechanism with some contribution to oxygen transport into the cell. The molecular mass of human myoglobin is 17.8 kD. Myoglobin is present exclusively in striated muscle, with the single exception of chicken gizzard smooth muscle. Since myoglobin is the only striated muscle-specific antigen, it is a valuable tool used in distinguishing rhabdomyosarcomas from other soft tissue tumors. After muscle tissue damage such as crush injuries, burns, myocardial infarction and muscle diseases, increased levels of myoglobin are found in the blood and urine. This antibody reacts with human myoglobin.



Myosin Heavy Chains, Smooth Muscle



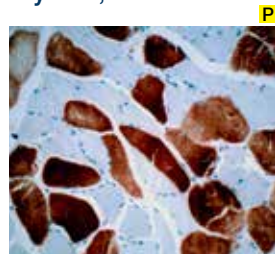
Myoepithelial cells stained with Anti-Myosin heavy chains using AEC chromogen

P
 Clone: SMMS.1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Crude human uterus caldesmon
 Specificity: Smooth muscle myosin heavy chains
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM331-5M
Ready-to-Use (Automated):	AM331-10M
i6000™	AM331-10M
Xmatrix®	AX331-YCD, AX331-50D
Concentrated:	MU331-UC, MU331-5UC
	MU331-1UC
Recommended Positive Control:	FG-331M
Recommended Barrier Control:	FB-331M

SMMS.1 is approximately 204 kD and is considered to be the marker for smooth muscle cell phenotypes. It has been designed for specific localization of both vascular and visceral smooth muscle. Monoclonal antibody to smooth muscle myosin heavy chains in combination with monoclonal antibodies to calponin and heavy caldesmon may be used to study the differences between benign, in-situ lesions and invasive carcinomas. Monoclonal antibody stains smooth muscle myosin heavy chains in vascular and visceral smooth muscle, myoepithelial cells in normal and benign human mammary gland and certain stromal myofibroblasts.

Myosin, Skeletal Muscle



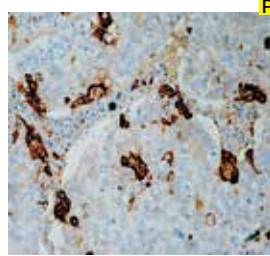
Skeletal muscle stained with Anti-Myosin using DAB chromogen

P
 Clone: MY-32
 Isotype: IgG1
 Source: Mouse
 Immunogen: Rabbit muscle myosin
 Specificity: Skeletal-muscle myosin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM109-5M
Ready-to-Use (Automated):	AM109-10M
i6000™	AM109-10M
Xmatrix®	AX109-YCD, AX109-50D
Concentrated:	MU109-UC, MU109-5UC
	MU109-1UC
Recommended Positive Control:	FG-109M
Recommended Barrier Control:	FB-109M

Myosin along with actin forms the fundamental contractile unit of muscle, the myofibril. It has a molecular mass of 500 kD and is comprised of two identical heavy chains (200 kD each) and four light chains (15-20 kD). Monoclonal antibody MY-32 to fast-twitch skeletal myosin may be used for detecting cross-striated muscle differentiation in tumors. This antibody does not stain human or animal cardiac or smooth-muscle myosin. Staining of fast-twitch (type II) isomyosin molecules has been demonstrated on human skeletal muscle. The antibody stains human, rabbit, rat, mouse, bovine, chicken, and guinea pig skeletal myosin.

Napsin A



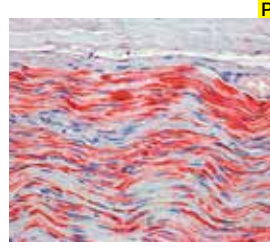
Lung adenocarcinoma stained with anti-Napsin A using DAB chromogen

P
 Clone: IP64
 Isotype: IgG2b
 Source: Mouse
 Immunogen: Napsin
 Specificity: Napsin A
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM701-5M
Ready-to-Use (Automated):	AM701-10M
i6000™	AM701-10M
Xmatrix®	AX701-YCD, AX701-50D
Concentrated:	MU701-UC, MU701-5UC
	MU701-1UC
Recommended Positive Control:	FG-701M
Recommended Barrier Control:	FB-701M

Napsin A has specific function in normal alveolar epithelium and is proposed to play a role in the proteolytic processing of surfactant precursors. Napsin A is reported to be predominantly expressed in lamellar bodies of type II pneumocytes, secondary lysosomes of alveolar macrophages, respiratory epithelium of terminal and respiratory bronchioles, plasma cells within a subset of lymphocytes in normal lung, as well as in epithelial cells of renal tubules in normal kidney and is weakly expressed in normal spleen.

Neurofilament



Nerve stained with Anti-Neurofilament using AEC chromogen

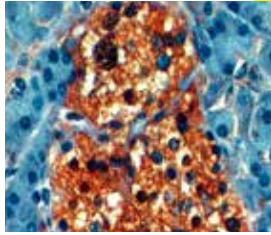
P
 Clone: NE-14
 Isotype: IgG1
 Source: Mouse
 Immunogen: Neurofilament purified from human brain
 Specificity: Neurofilaments
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM073-5M
Ready-to-Use (Automated):	AM073-10M
i6000™	AM073-10M
Xmatrix®	AX073-YCD, AX073-50D
Concentrated:	MU073-UC, MU073-5UC
Recommended Positive Control:	FG-073M
Recommended Barrier Control:	FB-073M

Neurofilaments (10 nm diameter) and microtubules (25 nm diameter) comprise the main structural elements of neuronal axons, dendrites, and perikarya. Neurofilaments are composed of three major polypeptides referred to as the neurofilament triplet with approximate molecular weights of 200 kD, 160 kD and 68 kD. This antibody can be used for positive identification of neurons in the central and peripheral nervous systems. In general, co-expression of keratin and neurofilament should be interpreted as indicating neuroendocrine differentiation of a given tissue or neoplasm. The antibody stains Neurofilament in sections of brain and other tissues.



Neuron Specific Enolase (NSE)



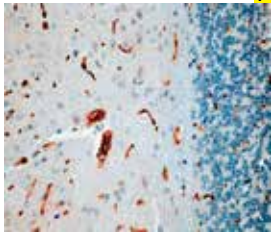
Pancreatic islets stained with anti-NSE using DAB chromogen

Clone: MIG-N3
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Purified human gamma enolase
 Specificity: Neuron specific enolase (NSE)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM055-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM055-10M AX055-YCD, AX055-50D
Concentrated:	MU055-UC, MU055-5UC MU055-1UC
Recommended Positive Control:	FG-055M
Recommended Barrier Control:	FB-055M

NSE is a gene which encodes for a protein found in matured neurons and is used in panels along with chromogranin, synaptophysin and neurofilament. Elevated NSE concentrations are observed in patients with neuroblastoma, pancreatic islet cell carcinoma, medullary thyroid carcinoma, pheochromocytoma, and other neuroendocrine tumors as well as certain benign conditions. NSE is specific for such proteins, and aids in detection of neural and neuroendocrine lineage.

NGF Receptor



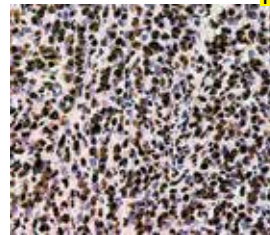
Brain stained with anti-NGFR using DAB chromogen

Clone: EP31
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human NGFR protein
 Specificity: NGFR
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN738-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN738-10M AY738-YCD, AY738-50D
Concentrated:	NU738-UC, NU738-5UC
Recommended Positive Control:	FG-738N
Recommended Barrier Control:	FB-738N

NGFR, also known as p75NTR, is a receptor of neurotrophins and involved in survival, differentiation and apoptosis of neurons. It is expressed in neuronal cells in various tissues and tumors with neuronal origin. NGFR is also expressed in melanocytes, myoepithelial cells, basal-like cells, perivascular cells and lymphoid dendritic cells. NGFR is helpful in identification of perineural invasion of malignant skin tumors with a panel of antibodies. It is also a complementary marker to S-100 for identification of desmoplastic melanomas.

Nuclear Ribonucleoprotein



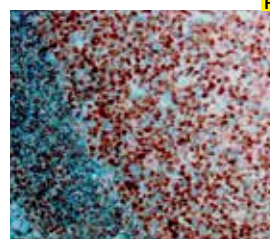
Spleen tissue stained with Anti-Nuclear ribonucleoprotein using DAB chromogen

Clone: 58-15
 Isotype: IgG
 Source: Mouse
 Immunogen: Isolated nuclei
 Specificity: Nuclear Ribonucleo protein particles
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM230-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM230-10M AX230-YCD, AX230-50D
Concentrated:	MU230-UC, MU230-5UC
Recommended Positive Control:	FG-230M
Recommended Barrier Control:	FB-230M

Monoclonal antibody 58-15 is one such antibody that recognizes a 36 kD nuclear antigen that is organized into discrete 20-80 nm electron-dense nuclear granules. Immunohistochemical analyses in a variety of different tumors indicate that antinuclear monoclonal antibodies may be useful for probing the cell cycle dependent modulation of nuclear antigens. This antibody stains a 20-80 nm electron dense nuclear structure with highest labeling densities found in nuclear ribonucleoprotein particles, although heterochromatin, euchromatin, and nucleoli may also be stained.

Oct-2



Tonsil tissue stained with anti-Human OCT-2 using DAB chromogen

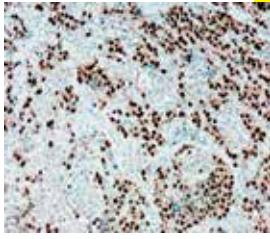
Clone: EP115
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human Oct-2protein
 Specificity: Human Oct-2
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN830-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN830-10M AY830-YCD, AY830-50D
Concentrated:	NU830-UC, NU830-5UC NU830-1UC
Recommended Positive Control:	FG-830N
Recommended Barrier Control:	FB-830N

Octamer transcription factor-2 (OCT-2) possesses a leucine zipper domain and belongs to the POU family of transcription factors. It specifically binds to the octamer motif (5'- ATTTTCAT-3), activates immunoglobulin gene expression and regulates transcription in a number of tissues. OCT-2 is important for the expression of B cell specific genes, such as CD20 and CRISP-3. OCT-2 is expressed in mature B cells, predominantly germinal center B cells. Low expression of OCT-2 has been found in immature B cells, T cells and myelomonocytic cells. OCT-2 reactivity in epithelial cells and neuronal cells has also been reported. The OCT-2 antibody labels various B cell lymphomas with strong expression in germinal center-derived lymphomas. In a study on Hodgkin's lymphoma (HL), OCT-2 positivity has been observed in 15 out of 15 lymphocyte predominance HLs, but none of the 29 classic HLs.



Oct-4



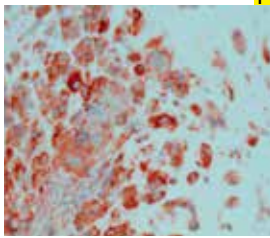
Testis stained with anti-Oct-4 using DAB chromogen

Clone: EP143
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human Oct-4 protein
 Specificity: Oct-4
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN724-5M
Ready-to-Use (Automated):	AN724-10M
i6000™	AY724-YCD, AY724-50D
Xmatrix®	AY724-YCD, AY724-50D
Concentrated:	NU724-UC, NU724-5UC
Recommended Positive Control:	FG-724N
Recommended Barrier Control:	FB-724N

Oct-4 transcription factor is initially active as a maternal factor in the oocyte but remains active in embryos throughout the preimplantation period. Oct-4 expression is associated with an undifferentiated phenotype and tumors. Oct-4 is a sensitive and specific marker for germ cell tumors. It is consistently detected in carcinoma in situ/gonadoblastoma, seminomas, germinoma, dysgerminoma, and embryonal carcinoma but not in the differentiated components of nonseminomas, i.e., teratomas, yolk sac tumors, and choriocarcinomas. It is useful in the identification of primary as well as metastatic germ cell tumors.

Osteonectin



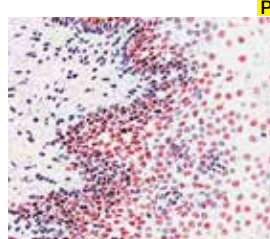
Osteosarcoma stained with Anti-Osteonectin using DAB chromogen

Clone: OST1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human osteonectin
 Specificity: Osteonectin protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM387-5M
Ready-to-Use (Automated):	AM387-10M
i6000™	AX387-YCD, AX387-50D
Xmatrix®	AX387-YCD, AX387-50D
Concentrated	MU387-UC, MU387-5UC
Recommended Positive Control:	FG-387M
Recommended Barrier Control:	FB-387M

Bone matrix consists of collagen and non-collagenous proteins. Osteonectin, a 32-kD calcium-binding glycoprotein, is found in a variety of cell types, which include osteoblastic epithelial cells and fibroblasts. Osteonectin is a useful biochemical marker for bone-related tumors. Thus, osteonectin antibody can be used to demonstrate the presence of osteonectin in active osteoblasts and osteoprogenitor cells as well as in young osteocytes.

p105 Proliferation-Associated Nuclear Antigen



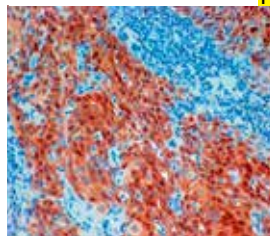
Oral mucosa stained with Anti-p105 using AEC chromogen

Clone: 2B3
 Isotype: IgM
 Source: Mouse
 Immunogen: Pokeweed mitogen-stimulated human peripheral blood lymphocytes
 Specificity: p105 proliferation-associated nuclear antigen
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM317-5M
Ready-to-Use (Automated):	AM317-10M
i6000™	AX317-YCD, AX317-50D
Xmatrix®	AX317-YCD, AX317-50D
Concentrated:	MU317-UC, MU317-5UC
Recommended Positive Control:	FG-317M
Recommended Barrier Control:	FB-317M

Antibody to p105 is directed against two polypeptides with molecular mass of 105 and 41 kD. Anti-p105 is the only immunological reagent known to preferentially stain interchromatin granules, a domain within the nuclear matrix responsible for RNA synthesis. The p105 antigen is thought to play an important role in RNA metabolism, RNA transport, or cell-cycle regulation. Like Ki-67, p105 is a proliferation-associated nuclear antigen that shows increased expression in proliferating cells. In normal cells p105 staining is absent during the early phases of the cell cycle. During G2 and mitosis, p105 levels increase dramatically. Antibody to p105 may prove useful for identifying malignancies and in studying chromatin structure and malignant transformations.

p16 (INK4a)



Cervical carcinoma stained with Anti-p16 using DAB as chromogen

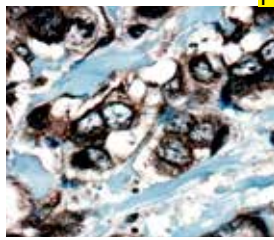
Clone: G175-405
 Isotype: IgG
 Source: Mouse
 Immunogen: Human p16 (INK4a) fusion protein
 Specificity: P16
 Localization: Nucleus and/or Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM540-5M
Ready-to-Use (Automated):	AM540-10M
i6000™	AX540-YCD, AX540-50D
Xmatrix®	AX540-YCD, AX540-50D
Concentrated:	MU540-UC, MU540-5UC
Recommended Positive Control:	FG-540M
Recommended Barrier Control:	FB-540M

p16(INK4a) is a tumor-suppressor protein and that genetic and epigenetic abnormalities in genes controlling the G1 checkpoint can lead to both escape from senescence and cancer formation. The interaction of p16(INK4a) family members can be a binary complex with CDK4/6 or ternary complex with cyclin D-bound CDK4/6 and ultimately results in the inhibition of cell cycle progression. As such, expression of p16(INK4a) is commonly associated with cellular senescence, and disruption of the p16(INK4a) gene is frequently observed in human tumors. The p16(INK4a) locus is deleted in a wide spectrum of tumors including melanoma, pancreatic adenocarcinoma, glioblastoma, certain leukemias and non-small cell lung cancer. **For research use only. Not for use in diagnostic procedures.**



p120



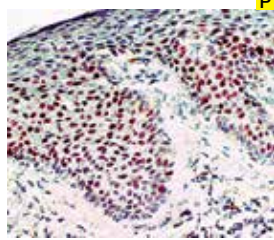
Breast cancer tissue stained with anti-Human p120 using DAB chromogen

P
 Clone: SP63
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide from the C-terminus of human p120
 Specificity: Human p120
 Localization: Membrane and cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN760-5M
Ready-to-Use (Automated):	
i6000™	AN760-10M
Xmatrix®	AY760-YCD, AY760-50D
Concentrated:	NU760-UC, NU760-5UC
Recommended Positive Control:	FG-760N
Recommended Barrier Control:	FB-760N

Delta 1 Catenin (p120) is an efficient tyrosine kinase substrate implicated both in cell transformation by SRC and in ligand-induced receptor signaling through the EGF, PDGF, CSF-1 and ERBB2 receptors. The association of catenins to cadherins produces a complex which is linked to the actin filament network, and which seems to be of primary importance for cadherins cell-adhesion properties. Cytoplasmic accumulation of p120 Catenin has been observed in lung cancer, pancreatic cancer, and gastric cancer and colon cancers and is associated with poor progress in colon cancer patients. In breast lobular neoplasia, anti-p120 Catenin shows a diffuse cytoplasmic immunostaining pattern, while breast ductal neoplasia retains the membrane immunostaining pattern. P120 Catenin antibody is useful in differentiation of lobular carcinoma from ductal carcinoma of the breast and in identifying early lesions of lobular neoplasia.

p21/WAF1



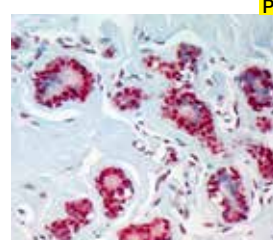
Skin stained with Anti-WAF-1 using AEC chromogen

P
 Clone: 4D10
 Isotype: IgG1
 Source: Mouse
 Immunogen: Recombinant fusion protein corresponding to full length WAF1 molecule
 Specificity: p21/WAF1 antigen
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM434-5M
Ready-to-Use (Automated):	
i6000™	AM434-10M
Xmatrix®	AX434-YCD, AX434-50D
Concentrated:	MU434-UC, MU434-5UC
Recommended Positive Control:	FG-434M
Recommended Barrier Control:	FB-434M

The p21/WAF1 protein is a p53 regulated gene product that has been shown to mediate cell cycle arrest. The growth arrest is due to several properties of this protein, namely cyclin dependent kinase inhibition, and maintenance of cell cycle arrest at G2 by blocking the interaction of Cdc25C with PCNA and inhibition of stress activated protein kinases. In breast cancer the p21/WAF1 expression is generally seen to be negative. This antibody stains the nucleus in cells that are arrested in G1 phase.

p27 (Kip1)



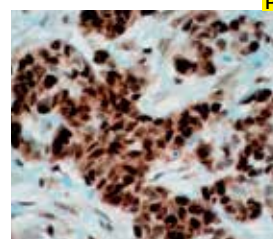
Breast tissue stained with Anti-p27/Kip1 using AEC chromogen

P
 Clone: DCS72
 Isotype: IgG1
 Source: Mouse
 Immunogen: Recombinant rodent p27/Kip1 antigen
 Specificity: p27 Kip1 antigen
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM396-5M
Ready-to-Use (Automated):	
i6000™	AM396-10M
Xmatrix®	AX396-YCD, AX396-50D
Concentrated:	MU396-UC, MU396-5UC
Recommended Positive Control:	FG-396M
Recommended Barrier Control:	FB-396M

The p27 Kip1 protein, also known as cyclin-dependent kinase inhibitor 1b (CDKN1B) or Kip1, is a putative tumor suppressor gene, regulator of drug resistance in solid tumors, and promoter of apoptosis. It acts as a safeguard against inflammatory injury and it has a role in cell differentiation. The p27 Kip1 protein is expressed in all normal tissues. The level of its expression has been observed to decrease during tumor development and progression in many tumors, including oral squamous cell carcinoma and in thyroid, colon, breast, prostate, and superficial bladder carcinomas. Overexpression of p27 Kip1 has been observed in a subset of aggressive B cell lymphomas.

p27/Kip1



Breast cancer tissue stained with anti-Human p27/Kip1 using DAB chromogen

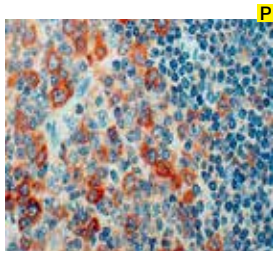
P
 Clone: EP104
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in the C-terminus of human p27/Kip1 protein
 Specificity: Human p27/Kip1
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN817-5M
Ready-to-Use (Automated):	
i6000™	AN817-10M
Xmatrix®	AY817-YCD, AY817-50D
Concentrated:	NU817-UC, NU817-5UC
Recommended Positive Control:	FG-817N
Recommended Barrier Control:	FB-817N

p27/Kip1 is a cyclin kinase inhibitor involved in G1 arrest. p27/Kip1 binds to and inhibits cyclinE-Cdk2 complex, cyclinA-CDK2 and cyclinD1-CDK4 (1). p27/Kip1 is regulated by phosphorylation on serine 10 (s10) and threonine 187 (T187). Phosphorylation by CDK2 on T187 results in ubiquitination and degradation of p27/Kip1, while phosphorylation by hKIS on S10 signals nuclear export to the cytoplasm. The expression level of p27/Kip1 is high in normal cells. Downregulation of p27/Kip1 is found in many types of cancers, and decreased expression of p27/Kip1 appears to be a poor prognostic factor in several tumor models, including carcinomas of the lung, breast, colorectal, and prostate.



p34cdc2 (Cyclin Dependent Kinase/CDK1)



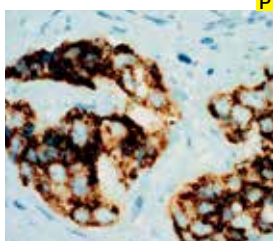
Tonsil tissue stained with Anti-p34cdc2 using DAB chromogen

Clone: POH-1
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Recombinant human p34cdc2 fusion protein
 Specificity: p34cdc2 cyclin dependent kinase
 Localization: Nucleus & Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM301-5M
Ready-to-Use (Automated):	AM301-10M
i6000™	AX301-YCD, AX301-50D
Xmatrx®	MU301-UC, MU301-5UC
Concentrated:	FG-301M
Recommended Positive Control:	FB-301M
Recommended Barrier Control:	FB-301M

p34cdc2 is a phosphoprotein with protein kinase activity that functions in the G2/M phase transition of the cell cycle. It is the catalytic subunit of the maturation-promoting factor (MPF) and forms a complex with both cyclin A and B in mammalian cells. Activated p34cdc2 kinase phosphorylates a variety of substrates leading to some specific events of mitosis including nuclear envelope break-down and chromosome condensation. It has also been implicated in lymphoid proliferation. This antibody stains p34cdc2 cyclin dependent kinase in nucleus and cytoplasm of proliferating cells and tumor cells and cross-reacts with skeletal muscle cells.

P504S (AMACR)



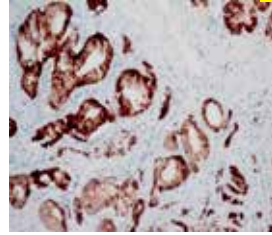
Prostate carcinoma stained with Anti-P504S antibody using DAB chromogen

Clone: 13H4
 Isotype: IgG
 Source: Rabbit
 Immunogen: Human AMACR polypeptide
 Specificity: P504S
 Localization: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN449-5M (ASR)
Ready-to-Use (Automated):	AN449-10M (RUO)
i6000™	AY449-YCD, AY449-50D (RUO)
Xmatrx®	NU449-UC, NU449-5UC (ASR)
Concentrated:	FG-449N
Recommended Positive Control:	FB-449N
Recommended Barrier Control:	FB-449N

P504S is a gene that encodes a protein Alpha-Methylacyl-CoA Racemase that is involved in the metabolism of branched-chain fatty acid and bile acid intermediates. P504S antibody stains human Alpha Methylacyl CoA Racemase in the cytoplasm of target prostatic cells. **Analyte Specific Reagent. Analytical and performance characteristics are not established, Automated version is for research use only.**

P504S (AMACR)



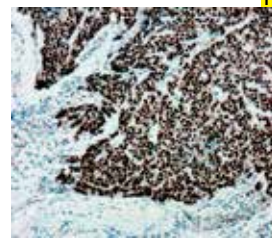
Prostate carcinoma stained with Rabbit Anti-P504S / AMACR using DAB as chromogen

Clone: RBT-AMACR
 Isotype: IgG
 Source: Rabbit
 Immunogen: Human P504S
 Specificity: P504S/AMACR
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN538-5M
Ready-to-Use (Automated):	AN538-10M
i6000™	AY538-YCD, AY538-50D
Xmatrx®	NU538-UC, NU538-5UC
Concentrated:	FG-538N
Recommended Positive Control:	FB-538N
Recommended Barrier Control:	FB-538N

AMACR has been recently described as a prostate cancer-specific gene that encodes a protein involved in the beta-oxidation of branched chain fatty acids. High expression of AMACR (P504S) protein is usually found in prostatic adenocarcinoma but not in benign prostatic tissue by immunohistochemical staining in paraffin-embedded tissues. It stains premalignant lesions of prostate: high grade prostatic intraepithelial neoplasia (PIN) and atypical adenomatous hyperplasia. Using AMACR (P504S) as a positive marker along with basal cell staining (34 beta E12 or p63) as a negative marker could help to confirm the diagnosis of small focus of prostate carcinoma on needle biopsies.

p53



Breast Ca. stained with anti-P53

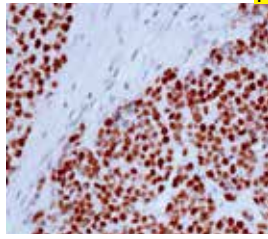
Clone: EP9
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to N-terminal residues of human p53 protein
 Specificity: Human p53 protein
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN728-5M
Ready-to-Use (Automated):	AN728-10M
i6000™	AY728-YCD, AY728-50D
Xmatrx®	NU728-UC, NU728-5UC
Concentrated:	FG-728N
Recommended Positive Control:	FB-728N
Recommended Barrier Control:	FB-728N

Tumor protein p53, a nuclear protein, plays an essential role in the regulation of cell cycles, specifically in the transition from G0 to G1. It is found in very low levels in normal cells, and it functions as a tumor suppressor within a variety of tumors by either stimulating apoptosis or growth arrest in deference to cell type and physiological factors. p53 is overexpressed in over 50% of human cancers. Positive staining of p53 detected by immunohistochemistry has been observed in colon cancer, breast cancer, lung cancer, prostate cancer and ovary cancer.



p53 Protein



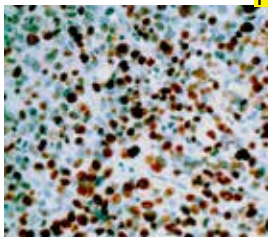
Breast carcinoma stained with Anti-p53 using DAB chromogen

Clone: BP53-12-1
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Recombinant human wild-type p53 protein
 Specificity: p53 protein
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM195-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM195-10M AX195-YCD, AX195-50D
Concentrated:	MU195-UC, MU195-5UC
Recommended Positive Control:	FG-195M
Recommended Barrier Control:	FB-195M

p53 is a tumor suppressor gene product identified in a wide variety of tumors. p53 protein is present in low concentration in normal cells, but elevated levels of mutant p53 have been found in many common cancers. Accumulation of mutant p53 detected by immunohistochemical staining has been reported in breast, lung, colon, stomach, bladder, and testis carcinomas, soft-tissue sarcomas, and melanomas. This antibody stains positive in nucleus of a variety of tumor cells.

p53 Protein



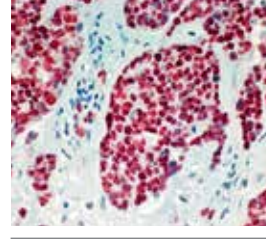
Breast carcinoma stained with Anti-p53 using DAB chromogen

Clone: DO7
 Isotype: IgG2b
 Source: Mouse
 Immunogen: Recombinant wild-type p53 protein
 Specificity: p53 protein
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM239-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM239-10M AX239-YCD, AX239-50D
Concentrated:	MU239-UC, MU239-5UC
Recommended Positive Control:	FG-239M
Recommended Barrier Control:	FB-239M

p53 is a tumor suppressor gene product identified in a wide variety of tumors. p53 protein is present in low concentration in normal cells, but elevated levels of mutant p53 have been found in many common cancers. Accumulation of mutant p53 detected by immunohistochemical staining has been reported in breast, lung, colon, stomach, bladder, and testis carcinomas, soft-tissue sarcomas, and melanomas. This antibody stains positive in nucleus of a variety of tumor cells.

p53 Protein



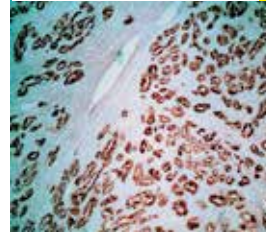
Breast carcinoma stained with Anti-p53 using DAB chromogen

Clone: 1801
 Isotype: IgG1
 Source: Mouse
 Immunogen: Fusion proteins of human p53 with β-galactosidase
 Specificity: p53 protein
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM240-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM240-10M AX240-YCD, AX240-50D
Concentrated:	MU240-UC, MU240-5UC MU240-1UC
Recommended Positive Control:	FG-240M
Recommended Barrier Control:	FB-240M

p53 is a tumor suppressor gene product identified in a wide variety of tumors. p53 protein is present in low concentrations in normal cells, but elevated levels of mutant p53 have been found in many common cancers. Accumulation of mutant p53 detected by immunohistochemical staining has been reported in breast, lung, colon, stomach, bladder, and testis carcinomas, soft-tissue sarcomas, and melanomas. This antibody stains both wild-type and mutant human p53 protein primarily in the nucleus of positive cells.

PAP (Prostatic Acid Phosphatase)



Prostate Carcinoma stained with Anti-PAP using DAB chromogen

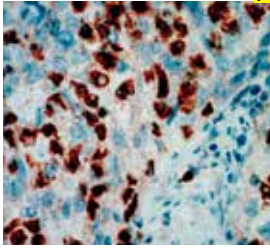
Clone: A40010
 Isotype: IgG1
 Source: Mouse
 Immunogen: PAP purified from seminal fluid
 Specificity: PAP
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM532-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM532-10M AX532-YCD, AX532-50D
Concentrated:	MU532-UC, MU532-5UC
Recommended Positive Control:	FG-532M
Recommended Barrier Control:	FB-532M

Prostate acid phosphatase (PAP) is a 100 kD glycoprotein present in high concentration in the prostate gland and its secretions. PAP is measured clinically because its level often rises in the serum in cases of prostatic carcinoma. By immunohistochemical analysis PAP has been found concentrated within the large secretory vacuoles of the supra nuclear portion of the prostatic columnar epithelial cell. In hyperplastic prostates and in benign prostatic tissue adjacent to the prostatic carcinoma, PAP activity is limited to the acinar or ductal columnar epithelial cells and adjacent luminal content. PAP reactivity in an extraprostatic tumor is an accurate and sensitive indicator of metastatic prostatic carcinoma.



PAX-5



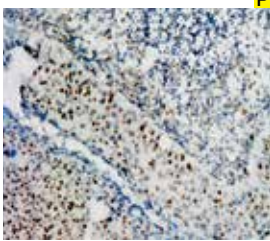
B cell showing PAX-5 positivity in a reactive lymph node stained using DAB chromogen

Clone: ZP007
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human PAX-5
 Specificity: PAX-5 antigen
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM457-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM457-10M
Xmatrx [®]	AX457-YCD, AX457-50D
Concentrated:	MU457-UC, MU457-5UC
Recommended Positive Control:	FG-457M
Recommended Barrier Control:	FB-457M

The PAX-5 gene is a member of the paired box (PAX) family of transcription factors. The central feature of this gene family is a novel, highly conserved DNA-binding motif, known as the paired box. The PAX proteins are important regulators in early development, and alterations in the expression of their genes are thought to contribute to neoplastic transformation. The PAX-5 gene encodes the B-cell lineage specific activator protein (BSAP) that is expressed at early, but not late stages of B-cell differentiation. Its expression has also been detected in developing CNS and testis, therefore, PAX-5 gene product may not only play an important role in B-cell differentiation, but also in neural development and spermatogenesis.

Papillomavirus Type 16 (HPV-16)



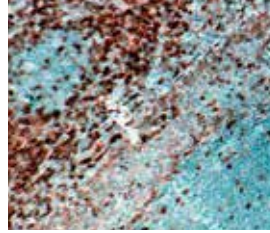
HPV infected tissue stained with Anti-HPV 16 using DAB chromogen

Clone: Cam Vir-1
 Isotype: IgG 2a
 Source: Mouse
 Immunogen: Recombinant HPV-16 protein
 Specificity: HPV16
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM362-5M (ASR)
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM362-10M (RUO)
Xmatrx [®]	AX362-YCD, AX362-50D (RUO)
Concentrated:	MU362-UC, MU362-5UC
	MU362-1UC (ASR)
Recommended Positive Control:	FG-362M
Recommended Barrier Control:	FB-362M

This antibody stains Papillomavirus type 16 in the nucleus of infected cells or tissues stained by immunohistochemical techniques. **Analyte Specific Reagent. Analytical and performance characteristics are not established, Automated version is for research use only.**

Paxillin



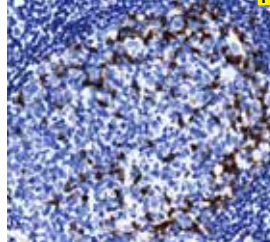
Tonsil stained with anti-Human Paxillin using DAB chromogen

Clone: EP89
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in N-terminus of human
 Specificity: Human Paxillin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN876-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN876-10M
Concentrated:	NU876-UC, NU876-5UC
Recommended Positive Control:	FG-876N
Recommended Barrier Control:	FB-876N

Paxillin is a cytoskeletal protein involved in actin-membrane attachment at sites of cell adhesion to the extracellular matrix (focal adhesion). It is a multidomain protein. The C-terminal region of paxillin contains four LIM domains that target paxillin to focal adhesions, presumably through a direct association with the cytoplasmic tail of beta-integrin. The N-terminus of paxillin controls most of its signaling activity. The proteins that bind to paxillin are diverse and include protein tyrosine kinases, such as Src and FAK, structural proteins, such as vinculin and actopaxin, and regulators of actin organization, such as COOL/PIX and PKL/GIT. Paxillin is widely expressed in epithelial cells of various tissues, neuronal cells and mesenchymal derived cells. An antibody to Paxillin is helpful in differentiating between renal cell carcinoma (Paxillin negative) and chromophobe renal cell carcinoma or renal oncocytoma (Paxillin positive), which are rare renal tumors originating from the intercalated cells of collecting ducts. Paxillin has been reported to be involved in tumor invasion and metastasis. Its expression in lung and liver cancers has been correlated with advanced tumor stage and metastasis.

PD-1



Tonsil stained with Anti-PD-1 using DAB chromogen

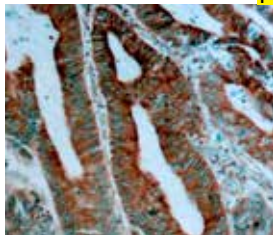
Clone: NAT105
 Isotype: IgG
 Source: Mouse
 Immunogen: PD-1
 Specificity: Human PD-1
 Localization: Cell Membrane
 Pre-treatment: EZ-AR2 Elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM918-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM918-10M
Xmatrx [®]	AX918-YCD, AX918-50D
Concentrated:	MU918-UC, MU918-5UC
	MU918-1UC
Recommended Positive Control:	FG-918M
Recommended Barrier Control:	FB-918M

PD-1 (programmed cell death protein 1), also known as CD279 (cluster of differentiation 279), is a cell surface receptor that belongs to the CD28 immunoglobulin superfamily and is expressed on T cells and pro-B cells. Studies have shown that PD-1/PD-L interaction function as an immune checkpoint for induction and maintenance of T-cells involved in peripheral tolerance and protects tissues from autoimmune attack. PD-1 down regulates the immune system which in turn reduces autoimmunity and promotes self-tolerance. PD-1 activity is mediated by dual mechanism: on one hand promoting apoptosis (programmed cell death) of self antigen specific T-cells in lymph nodes and on the other hand inhibiting apoptosis of regulatory T cells (suppressor T cells). PD-1 is commonly upregulated in tumor infiltrating T cells, binds to its ligand, PDL-1/PDL-2 and downregulate the anti-tumor T-cell response, hence PD-1 can be an important factor for cancer immunotherapy.



PDCD4



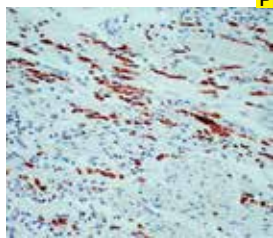
Colon cancer stained with anti-Human PDCD4 using DAB chromogen

Clone: EP102
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues near the N-terminus of human PDCD4 protein
Specificity: Human PDCD4
Localization: Cytoplasm/Nucleus
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN875-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN875-10M AY875-YCD, AY875-50D NU875-UC, NU875-5UC NU875-1UC
Concentrated:	
Recommended Positive Control:	FG-875N
Recommended Barrier Control:	FB-875N

Programmed cell death protein 4 (PDCD4) was initially identified as a differentially expressed protein during apoptosis. It acts as a tumor suppressor that inhibits tumor promoter-induced neoplastic transformation. It down-regulates the expression of MAP4K1, thus inhibiting events important in driving invasion, namely, MAPK85 activation and consequent JUN-dependent transcription. PDCD4 expression has been found in both normal and tumor cells. Reduced expression of PDCD4 is frequently observed in tumors. Loss of PDCD4 expression has been correlated with tumor progression and prognosis in cancers of the lung, ovary, pancreas and esophagus. Nuclear expression of PDCD4 was associated with a longer disease-free and overall survival rate of esophageal cancer.

PGP9.5



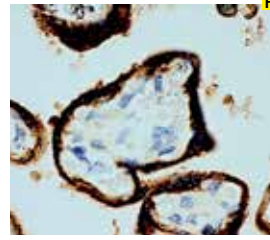
Small intestine stained with anti-PGP9.5

Clone: 3D9
Isotype: IgG2a kappa
Source: Mouse
Immunogen: PGP9.5 antibody was raised in mouse using recombinant human PGP9.5 (1-223aa) purified from *E. coli* as the immunogen
Specificity: Human PGP9.5
Localization: Cytoplasm
Pre-treatment: EZ-AR1/EZ-AR2 elegance
Manual/i6000: HK546-XAK/HK547-XAK
Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM736-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM736-10M AX736-YCD, AX736-50D MU736-UC, MU736-5UC MU736-1UC
Concentrated:	
Recommended Positive Control:	FG-736M
Recommended Barrier Control:	FB-736M

PGP9.5/UCH-L1 is a member of a gene family whose products hydrolyze small C-terminal adducts of ubiquitin to generate the ubiquitin monomer. PGP9.5 is a component of the ubiquitin system, which has value as a marker for neurons and may be of particular use in the study of ubiquitinated cellular inclusions characteristic of several chronic human neurodegenerative diseases. A fundamental role in regulating various biological activities, the PGP9.5 gene encodes two opposing enzymatic activities that affect alpha-synuclein degradation and Parkinson's disease susceptibility.

Placental Alkaline Phosphatase (PLAP)



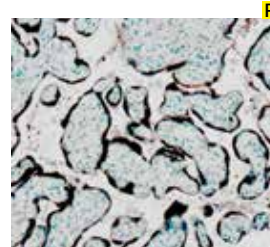
Placenta tissue stained with anti-PLAP using DAB chromogen

Clone: PL8-F6
Isotype: IgG
Source: Mouse
Immunogen: Purified human placental alkaline phosphatase
Specificity: Placental alkaline phosphatase
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM228-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM228-10M AX228-YCD, AX228-50D
Concentrated:	MU228-UC, MU228-5UC MU228-1UC
Recommended Positive Control:	FG-228M
Recommended Barrier Control:	FB-228M

Human Placental Alkaline Phosphatase (PLAP), a 60-70 kD oncofetal antigen, is a member of a family of membrane bound alkaline phosphatase enzymes and isoenzymes. PLAP and/or PLAP-like isoenzymes have been found to be expressed by malignant tumors of germ cell and non-germ cell origin. The antibody reacts with PLAP in syncytiotrophoblasts in placenta and also reacts with human germ cell tumors. This antibody stains positive in the cytoplasmic membrane and cytoplasm of positive cells.

Placental Lactogen (hPL)



Placenta tissue stained with Anti-hPL using DAB chromogen

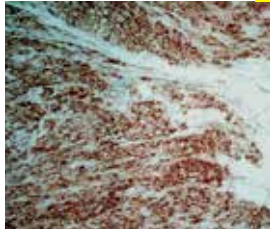
Clone: Polyclonal
Source: Rabbit
Immunogen: Human placental lactogen purified from human urine
Specificity: Human Placental Lactogen (hPL)
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AR040-5R
Ready-to-Use (Automated): i6000™ Xmatrx®	AR040-10R AW040-YCD, AW040-50D
Concentrated:	PU040-UP, PU040-5UP
Recommended Positive Control:	FG-040P
Recommended Barrier Control:	FB-040P

Human Placental Lactogen (hPL) can be demonstrated in human placental tissue and in the serum of pregnant women. Human placental lactogen has been identified in some breast carcinomas and in trophoblastic and nontrophoblastic tumors of the placenta, and has been used as a serum or tissue marker for trophoblastic and nontrophoblastic neoplasms. This antibody stains hPL in cytoplasm of trophoblast and other positive cells.



Platelet-Derived Growth Factor (PDGF)



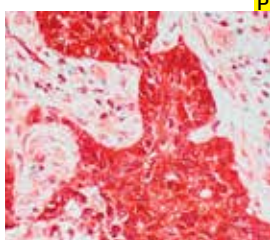
Squamous cell carcinoma stained with Anti-PDGF using AEC chromogen

P
 Clone: PDGF88
 Isotype: IgM
 Source: Mouse
 Immunogen: Synthetic peptide of PDGF-B conjugated to keyhole limpet hemocyanin
 Specificity: PDGF-B
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM376-5M
Ready-to-Use (Automated):	
i6000™	AM376-10M
Xmatrix®	AX376-YCD, AX376-50D
Concentrated:	MU376-UC, MU376-5UC
	MU376-1UC
Recommended Positive Control:	FG-376P
Recommended Barrier Control:	FB-376P

PDGF is one of the major factors activated in wound healing and revascularization and may play an important role as an endogenous promoter in epithelial tumor foundation. PDGF can lead to excessive production of extracellular matrix components including various collagens, proteoglycans, and laminin. The development of specific subsets of smooth muscle cells depends on PDGF. PDGF is one of the most potent activators of stromal cells. PDGFR is a prime candidate to mediate proliferation and migration responses of mesangial injury in glomerular disease. This monoclonal antibody stains PDGF in cytoplasm of positive cells.

Platelet-Derived Growth Factor (PDGF)



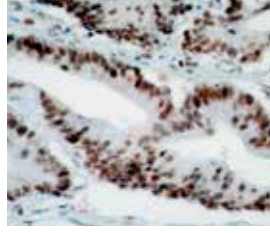
Squamous cell carcinoma stained with Anti-PDGF using AEC chromogen

P
 Clone: Polyclonal
 Source: Rabbit
 Immunogen: Synthetic peptide based on PDGF-B sequence that shares high homology with PDGF-A forms
 Specificity: PDGF
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR376-5R
Ready-to-Use (Automated):	
i6000™	AR376-10R
Xmatrix®	AW376-YCD, AW376-50D
Concentrated:	PU376-UP, PU376-5UP
Recommended Positive Control:	FG-376M
Recommended Barrier Control:	FB-376M

PDGF is one of the major factors activated in wound healing and may play an important role as an endogenous promoter in epithelial tumor foundation. PDGF can lead to excessive production of extracellular matrix components including various collagens, proteoglycans, and laminin. PDGF is one of the most potent activators of stromal cells. Proliferation and migration are important responses of mesangial cell injury. PDGFR is a prime candidate to mediate these responses in glomerular disease. PDGF and PDGFR are upregulated in the mesangium during glomerular injury. The monoclonal antibody to PDGF-B has been studied for its potential clinical utility in wound healing and revascularization. This epitope-specific antibody stains PDGF in cytoplasm of positive cells.

PMS2



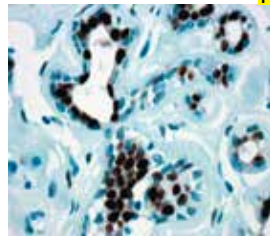
Colon cancer tissue stained with anti-Human PMS2 using DAB chromogen

P
 Clone: EP51
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues in human PMS2 protein
 Specificity: Human PMS2
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN844-5M (ASR)
Ready-to-Use (Automated):	
i6000™	AN844-10M (RUO)
Xmatrix®	AY844-YCD, AY844-50D (RUO)
Concentrated:	NU844-UC, NU844-5UC
	NU844-1UC (ASR)
Recommended Positive Control:	FG-844N
Recommended Barrier Control:	FB-844N

PMS2, a mismatch repair endonuclease, is a member of a family of genes involved in DNA mismatch repair. Carriers of the mismatch repair gene mutations have a high lifetime risk of developing Hereditary Non-Polyposis Colon Cancer (HNPCC) and several other cancers including endometrial cancer due to microsatellite instability (MSI) caused by accumulation of DNA replication errors in proliferating cells. Along with MLH1, MSH2 and MSH6, PMS2 antibody is helpful in diagnosis of MSI. An IHC study conducted by Mayo clinic on 535 cases with MSI high, 90% of the tumors showed loss of MLH1, MSH2 and/or MSH6 expression, while 70% of the remaining cases showed isolated loss of PMS2 expression. The loss of PMS2 was associated with young age of diagnosis and right-sided location but not with a striking family history of cancer. Endometrial carcinomas are the most common non-colorectal cancers that occur in HNPCC. The most common IHC abnormality in endometrial carcinomas with MSI was concurrent loss of MLH1/PMS2. Adding of PMS2 and MSH6 to MLH1 and MSH2 antibodies increased sensitivity for diagnosis of MSI. Tumors with low-level MSI show unfavorable pathological characteristics compared to tumors with no and tumors with high-level MSI. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

Progesterone Receptor



Breast carcinoma stained with Anti-PR using DAB chromogen

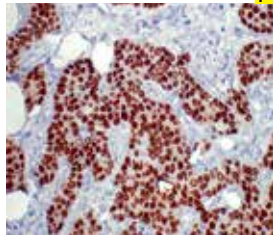
P
 Clone: EP2
 Isotype: IgG
 Source: Rabbit
 Immunogen: Purified human progesterone receptor protein
 Specificity: Progesterone Receptor
 Localization: Nuclear
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN711-5M (ASR)
Ready-to-Use (Automated):	
i6000™	AN711-10M (RUO)
Xmatrix®	AY711-YCD, AY711-50D (RUO)
Concentrated:	NU711-UC, NU711-5UC (ASR)
Recommended Positive Control:	FG-711N
Recommended Barrier Control:	FB-711N

The human progesterone receptor (PR), is a ligand-activated transcription factor and is a member of the steroid receptor family. PR exists in human as two isoforms; PR-A (94 kD) which lacks the first 164 amino acids of PR-B and PR-B (114 kD). This anti-PR recognizes both PR-A and B. It labels epithelial cells of breast, ovary and endometrium. This antibody stains human progesterone receptor in tissue sections by immunohistochemical techniques. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**



Progesterone Receptor



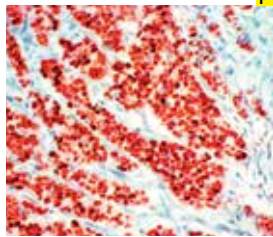
Breast carcinoma stained with Anti-PR using DAB chromogen

Clone: 1A6
 Isotype: IgG1
 Source: Mouse
 Immunogen: Synthetic peptide of progesterone receptor
 Specificity: Progesterone Receptor
 Localization: Nuclear
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual): AM172-2M, AM172-5M (ASR)
Ready-to-Use (Automated):
*i6000*TM AM172-10M (RUO)
 Xmatrix[®] AX172-YCD, AX172-50D (RUO)
Concentrated: MU172-UC, MU172-5UC (ASR)
Recommended Positive Control: FG-172M
Recommended Barrier Control: FB-172M

This antibody stains human nuclear progesterone receptor in tissue sections by immunohistochemical techniques. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

Progesterone Receptor (InSite[®] PR)



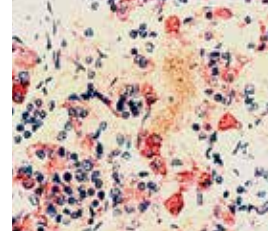
Progesterone Receptor on breast carcinoma showing strong nuclear positivity using AEC chromogen

Clone: PR88
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Purified human progesterone receptor protein
 Specificity: Progesterone Receptor
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual): AM328-5M
Ready-to-Use (Automated):
*i6000*TM AM328-10M
 Xmatrix[®] AX328-YCD, AX328-50D
Concentrated: MU328-UC, MU328-5UC
Recommended Positive Control: FG-328M
Recommended Barrier Control: FB-328M

The use of monoclonal antibodies to determine Progesterone Receptor status increases the predictive value of immunohistochemical analysis with respect to the response of human tumors to hormonal modulation. Historically, estrogen receptor-positive/progesterone receptor-positive breast carcinoma patients have demonstrated a better response to endocrine therapy than estrogen receptor-positive/ progesterone receptor-negative patients. This antibody stains positive in nucleus of the receptor positive cells.

Prolactin



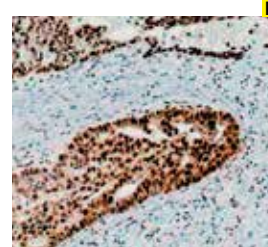
Pituitary gland stained with Anti-Prolactin using DAB chromogen

Clone: ME-121
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human Prolactin
 Specificity: Prolactin
 Localization: Cytoplasm/Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual): AM031-5M
Ready-to-Use (Automated):
*i6000*TM AM031-10M
 Xmatrix[®] AX031-YCD, AX031-50D
Concentrated: MU031-UC, MU031-5UC
 MU031-1UC
Recommended Positive Control: FG-031M
Recommended Barrier Control: FB-031M

Malignant pituitary adenomas or pituitary carcinomas arise from and consist of adenohypophysial cells. They can produce various hormones such as ACTH, Growth hormone, TSH, FSH, LH and Prolactin. Tumors that do not consist of adenohypophysial cells neither produce nor contain pituitary hormone, and thus immuno-peroxidase techniques are helpful in distinguishing from those pituitary tumors that store various hormones in the cell cytoplasm.

Proliferating Cell Nuclear Antigen (PCNA)



PCNA positivity in Breast carcinoma stained using DAB chromogen

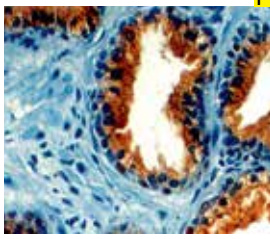
Clone: PC10
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Rat PCNA synthesized with the protein A expression vector pR1T2T
 Specificity: PCNA
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual): AM252-5M
Ready-to-Use (Automated):
*i6000*TM AM252-10M
 Xmatrix[®] AX252-YCD, AX252-50D
Concentrated: MU252-UC, MU252-5UC
 MU252-1UC
Recommended Positive Control: FG-252M
Recommended Barrier Control: FB-252M

PCNA, also known as cyclin, is a 36 kD nonhistone nuclear protein that plays a fundamental role in the initiation of cell proliferation. PCNA is a cell cycle-regulated protein that preferentially occurs in dividing cells and is undetectable or present in small amounts in resting cells. Immunoperoxidase staining for PCNA in benign tissues has revealed positive nuclear staining in normal colonic crypt epithelium, gastric glandular cells, germinal center cells of lymph node, basal cells of skin, and renal tubular epithelial cells. The monoclonal antibody to PCNA might be an acceptable alternative to Ki-67 labeling in routinely processed tissues. This antibody stains PCNA in the nucleus of proliferating cells.



Prostate Specific Acid Phosphatase (PSAP)



Prostate tissue stained with Anti-PSAP using DAB chromogen

P
 Clone: B01-94-21M-NA
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: Partially purified prostate acid phosphatase from human seminal plasma
 Specificity: Prostate Specific Acid Phosphatase (PSAP)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM013-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM013-10M AX013-YCD, AX013-50D
Concentrated:	MU013-UC, MU013-5UC
Recommended Positive Control:	FG-013M
Recommended Barrier Control:	FB-013M

Prostate specific acid phosphatase (PSAP) is a 100 kD glycoprotein present in high concentration in the prostate gland and its secretions. PSAP is measured clinically because its level often rises in the serum in cases of prostatic carcinoma. By immunohistochemical analysis PSAP has been found concentrated within the large secretory vacuoles of the supranuclear portion of the prostatic columnar epithelial cell. In hyperplastic prostates and in benign prostatic tissue adjacent to the prostatic carcinoma, PSAP activity is limited to the acinar or ductal columnar epithelial cells and adjacent luminal content.

Prostate Specific Antigen (PSA)



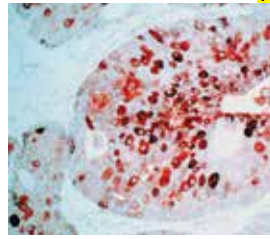
Prostate tissue stained with Anti-PSA using DAB chromogen

P
 Clone: ErPr-8
 Isotype: IgG1
 Source: Mouse
 Immunogen: Affinity purified prostate specific antigen
 Specificity: Prostate specific antigen (PSA)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM014-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM014-10M AX014-YCD, AX014-50D
Concentrated:	MU014-UC, MU014-5UC
Recommended Positive Control:	FG-014M
Recommended Barrier Control:	FB-014M

PSA is a glycoprotein with a molecular mass of 33-34 kD. Clone ErPr8 is directed against a 35 kD protein identical to PSA. PSA is biochemically and immunologically distinct from prostatic acid phosphatase. It is restricted to the cytoplasm of acinar and ductal epithelia of normal, benign or malignant prostate tissue. This antibody is useful for determining if an isolated metastasis is of prostatic origin. Since PSA is released by prostatic tumors, it is also a valuable serum marker of neoplasia.

pS2 Estrogen Inducible Protein



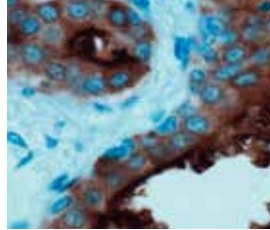
Breast carcinoma stained with Anti-pS2 estrogen inducible protein using Fast Red chromogen

P
 Clone: PS2.1
 Isotype: IgG1
 Source: Mouse
 Immunogen: Synthetic peptide of 31 amino acid residues from the C-terminus of human pS2 protein
 Specificity: pS2 protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AM190-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AM190-10M AX190-YCD, AX190-50D
Concentrated:	MU190-UC, MU190-5UC MU190-1UC
Recommended Positive Control:	FG-190M
Recommended Barrier Control:	FB-190M

This antibody specifically recognizes 6.5 kD human pS2 estrogen-regulated protein (6.5 kD). pS2 is specifically expressed and secreted by ER-mucosa cells of the normal stomach (antrum and body) of both female and male individuals. Primary breast tumors have been shown to express pS2 in ER+ primary breast tumors. This antibody shows a predominantly cytoplasmic localization of pS2 protein.

PSMA



Prostate stained with anti-Human PSMA using DAB chromogen

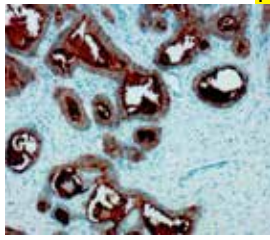
P
 Clone: SP29
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide derived from the C-terminus of human PSMA.
 Specificity: Human PSMA
 Localization: Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN768-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrx®	AN768-10M AY768-YCD, AY768-50D
Concentrated:	NU768-UC, NU768-5UC NU768-1UC
Recommended Positive Control:	FG-768N
Recommended Barrier Control:	FB-768N

Prostate Specific Membrane Antigen (PSMA) is a surface glycoprotein with restricted expression to normal prostate tissue, primary and metastatic prostate cancer and the neovasculature of various nonprostatic epithelial malignancies. Overexpression of PSMA is correlated with high tumor grade, non-diploid tumors, and advanced tumor stage. Even though PSA is useful in identifying the prostate origin of cancers, PSMA shows moderate to strong positivity in one-half of the cells per case that show relatively poor PSA staining, and is excellent in differentiating between prostatic adenocarcinoma and urothelial carcinoma. PSMA expression is highly restricted to the prostate. It is a useful marker for prostate tumors. In prostate cancer, overexpression of PSMA is correlated with high tumor grade, non-diploid tumors, and advanced tumor stage. It can be used as an effective predictor for tumor progression in prostate cancer.



PSMA



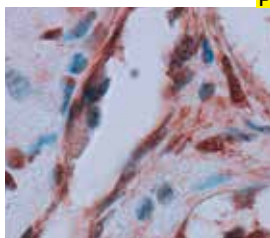
Prostate stained with anti-PSMA

Clone: EP192
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human PSMA protein
 Specificity: PSMA protein
 Localization: Membrane/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN714-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN714-10M
Xmatrx [®]	AY714-YCD, AY714-50D
Concentrated:	NU714-UC, NU714-5UC
Recommended Positive Control:	FG-714N
Recommended Barrier Control:	FB-714N

Prostate-specific membrane antigen (PSMA), also known as folate hydrolase 1 (FOLH1), is a type II transmembrane glycoprotein belonging to the M28 peptidase family. PSMA has two enzymatic activities, one as a prostate-specific integral membrane folate hydrolase and the other as a carboxypeptidase. An antibody to PSMA labels normal prostate epithelial cells and prostate tumor cells. Although the expression of PSMA in neovasculature of a variety of solid tumors has been reported, it is a useful marker for prostate tumors. In prostate cancer, overexpression of PSMA is correlated with high tumor grade, non-diploid tumors and advanced tumor state. It can be used as an effective predictor for tumor progression in prostate cancer.

PTEN



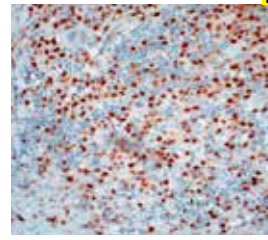
Prostate stained with anti-Human PTEN using DAB chromogen

Clone: SP218
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide derived from the C-terminus of human PTEN protein
 Specificity: Human PTEN
 Localization: Membrane, cytoplasm, and nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN746-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN746-10M
Xmatrx [®]	AY746-YCD, AY746-50D
Concentrated:	NU746-UC, NU746-5UC
	NU746-1UC
Recommended Positive Control:	FG-746N
Recommended Barrier Control:	FB-746N

Phosphatidylinositol-3, 4, 5-trisphosphate 3-phosphatase and dual specificity protein phosphatase (PTEN) is a tumor suppressor and a member in the PI3K/PTEN/Akt pathway. It contains a tensin like domain as well as a catalytic domain similar to that of the dual specificity protein tyrosine phosphatases. Unlike most of the protein tyrosine phosphatases, this protein preferentially dephosphorylates phosphoinositide substrates. The defects of PTEN have been implicated in human cancers from breast, prostate, thyroid, skin, endometrium, head and neck, and brain. Up to 50-60 percent of advanced prostate cancers show abnormal PTEN gene expression or loss of protein expression.

PU.1



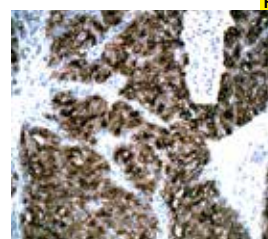
Lymphoma stained with anti-Human PU.1 using DAB chromogen

Clone: EP18
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues near the N-terminus of human transcription factor PU.1 protein
 Specificity: Human PU.1
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN843-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AN843-10M
Xmatrx [®]	AY843-YCD, AY843-50D
Concentrated:	NU843-UC, NU843-5UC
	NU843-1UC
Recommended Positive Control:	FG-843N
Recommended Barrier Control:	FB-843N

PU.1 is a member of the Ets family of transcription factors and is required for the development of multiple hematopoietic lineages. It plays a pivotal role in normal myeloid differentiation, and regulates the expression of immunoglobulin and other genes that are important for B cell development. PU.1 stains B lymphocyte in germinal center and mantle B cell, but not plasma cell. It labels many types of B cell lymphoma including mantle cell lymphoma, but it is not expressed in classical Hodgkin lymphoma (cHL). The lack of transcription factor PU.1 protein expression in cHL, a lympho proliferative disease of predominantly B-cell origin, likely contributes to the lack of immunoglobulin expression and incomplete B-cell phenotype characteristic of the Reed-Sternberg cells in cHL.

Renal Cell Carcinoma (RCC)



Renal Cell carcinoma stained with Anti-RCC using DAB chromogen

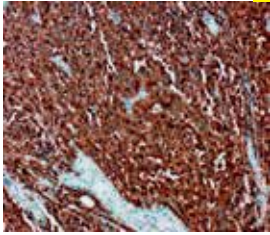
Clone: RCC-26
 Isotype: IgG1/K
 Source: Mouse
 Immunogen: Human RCC
 Specificity: Renal Glycoprotein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: None

Ready-to-Use (Manual):	AM543-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM543-10M
Xmatrx [®]	AX543-YCD, AX543-50D
Concentrated:	MU543-UC, MU543-5UC
Recommended Positive Control:	FG-543M
Recommended Barrier Control:	FB-543M

Renal cell carcinoma, also known by a gurnistical tumor, is the most common form of kidney cancer arising from the renal tubule. RCC antibody recognizes a 200 kD glycoprotein localized in the brush border of the proximal renal tubule. It immunoreacts with approximately 90% of primary renal cell carcinomas and approximately 85% of metastatic renal cellcarcinomas. Other tumors that may react with this antibody are parathyroid adenoma, an occasional breast carcinoma. Nephroblastoma, oncocytoma, mesoblastic nephroma, transitional cell carcinoma, and angiomyolipoma are not labeled with this antibody



S100-β



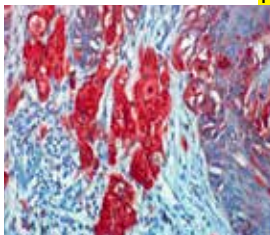
Melanoma stained with anti-S100 beta antibody using DAB

Clone: EP32
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the C-terminus of human S100 Beta protein
 Specificity: S100 Beta protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN713-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN713-10M AY713-YCD, AY713-50D
Concentrated:	NU713-UC, NU713-5UC
Recommended Positive Control:	FG-713N
Recommended Barrier Control:	FB-713N

S100 belongs to the family of calcium binding proteins such as calmodulin and troponin C. S100 Beta is abundant in glial cells of the central and peripheral nervous system, in melanocytes, chondrocytes, and adipocytes. It also labels Langerhans cells, histiocytes, epithelial, myoepithelial cells and integrating reticular cells of lymphoid tissue, and tumors originated from these cells. S100 Beta is a useful marker for diagnosis of melanoma, tumors of nerves system.

S100 Protein



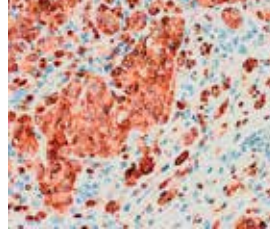
Melanoma stained with anti- S100 using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: S-100 protein isolated polyclonal from bovine brain using affinity chromatography
 Specificity: S100 protein
 Localization: Cytoplasm & Nucleus
 Tissue Type: FFPE
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR058-5R
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AR058-10R AW058-YCD, AW058-50D
Concentrated:	PU058-UP, PU058-5UP PU058-1UP
Recommended Positive Control:	FG-058P
Recommended Barrier Control:	FB-058P

S100 protein is a low molecular weight soluble protein first isolated from the brain and initially believed to be exclusively a glial marker. Two subunits of S100 protein have been identified, and they are differently expressed by various cells. the beta subunit is present in all S100 positive cells and tumors. In contrast, the alpha subunit is detectable only in neurons and lymph node macrophages. The presence of S100 protein is readily demonstrated in routinely processed malignant melanomas. S100 protein also has been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, in addition to glial cells. Neoplasms derived from these cells also express S100 protein to varying degrees. A large proportion of well-differentiated tumors of salivary gland, adipose, cartilaginous tissue, and Schwann cell derived tumors express S100 protein.

S100 Protein



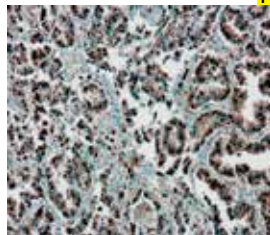
Melanoma stained with Anti-S100 using DAB chromogen

Clone: 15E2E2
 Isotype: IgG 2a Kappa
 Source: Mouse
 Immunogen: Purified bovine S-100 protein
 Specificity: S100 protein
 Localization: Cytoplasm & Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM058-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM058-10M AX058-YCD, AX058-50D
Concentrated:	MU058-UC, MU058-5UC MU058-1UC
Recommended Positive Control:	FG-058M
Recommended Barrier Control:	FB-058M

S100 protein is a low molecular weight soluble protein first isolated from the brain and initially believed to be exclusively a glial marker. Two subunits of S100 protein have been identified. The beta subunit is present in all S100 positive cells and tumors. In contrast, the alpha subunit is detectable only in neurons and lymph node macrophages. The presence of S100 protein is readily demonstrated in routinely processed malignant melanomas. S100 protein has also been found in normal melanocytes, Langerhans cells, histiocytes, chondrocytes, lipocytes, skeletal and cardiac muscle, Schwann cells, epithelial and myoepithelial cells of the breast, salivary and sweat glands, in addition to glial cells. Neoplasms derived from these cells also express S100 protein to varying degrees. A large proportion of well-differentiated tumors of salivary gland, adipose, cartilaginous tissue, and Schwann cell-derived tumors express S100 protein.

S100P



Lung stained with anti-S100p

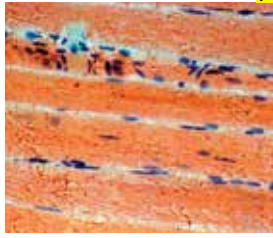
Clone: EP186
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues of human S100P protein
 Specificity: S100P protein
 Localization: Cytoplasm/Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN712-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN712-10M AY712-YCD, AY712-50D
Concentrated:	NU712-UC, NU712-5UC NU712-1UC
Recommended Positive Control:	FG-712N
Recommended Barrier Control:	FB-712N

S100P is a member of the S100 family of proteins. S100P is expressed in various normal tissues including placenta, bladder, spleen, gastric and intestinal mucosa. Overexpression of S100P has been detected in several cancers such as colon, prostate, pancreatic and lung carcinomas. It has been functionally implicated in carcinogenic processes. S100P is an early developmental marker of pancreatic carcinogenesis and can be used as a marker for pancreatic ductal adenocarcinoma. It may also serve as a predictor of distant metastasis and poor survival in non-small cell lung carcinomas.



Sarcomeric Actin



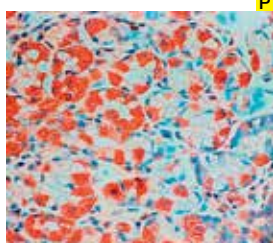
Muscle tissue stained with Anti-Sarcomeric Actin using DAB as chromogen

Clone: ZMSA-5
Isotype: IgG
Source: Mouse
Immunogen: Mouse anti-sarcomeric actin antibody is purified from mouse ascites.
Specificity: Sarcomeric Actin
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM511-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM511-10M AX511-YCD, AX511-50D
Concentrated:	MU511-UC, MU511-5UC
Recommended Positive Control:	FG-511M
Recommended Barrier Control:	FB-511M

Actin is a cytoskeletal protein that regulates cell motility, secretion, phagocytosis and cytokinesis. The NH₂-terminal of actin may function as an antigen. This terminal may also modulate actin interactions and may associate with proteins such as myosin. This antibody is specific for alpha isoform of skeletal and cardiac muscle actin. This antibody shows wide cross reactivity to other tissues from human, sheep, rabbit, guinea pig, rat, frog and snake. However, it does not react with smooth muscle tissue.

Secretin



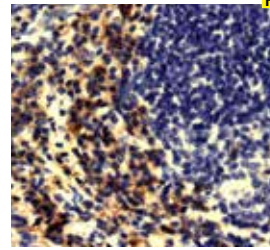
Stomach tissue stained with Anti-Secretin stained with AEC chromogen

Clone: Polyclonal
Source: Rabbit
Immunogen: Synthetic porcine secretin coupled to keyhole limpet hemocyanin with carbodiimide; conjugate emulsified in Freund's complete adjuvant prior to injection
Specificity: Secretin
Localization: Cytoplasm
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR067-5R
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AR067-10R AW067-YCD, AW067-50D
Recommended Positive Control:	FG-067P
Recommended Barrier Control:	FB-067P

This hormone, a polypeptide of 27 amino acids, which acts to stimulate pancreatic bicarbonate, is localized primarily in the gastrointestinal tract. It is released from secretin cells (S-cells) which have been localized within the antropyloric, duodenal, jejunal and ileal mucosa of human tissue. Hypersecretinemia has been observed in duodenal ulcers, Zollinger-Ellison syndrome, and chronic renal failure. This antibody stains Secretin in cellular elements in the epithelium of the gastrointestinal tract.

SLAMF7



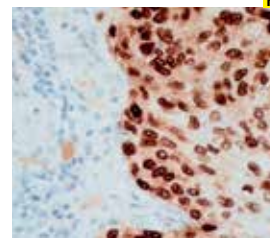
Tonsil stained with Anti-SLAMF7 using DAB chromogen

Clone: Polyclonal
Isotype: IgG
Source: Rabbit
Immunogen: SLAMF family member 7
Specificity: Human SLAMF7
Localization: Cell Membrane
Pre-treatment: EZ-AR2 Elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR920-5R (ASR)
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AR920-10R (RUO) AW920-YCD, AW920-50D (RUO)
Concentrated:	NIL
Recommended Positive Control:	FG-920P
Recommended Barrier Control:	FB-920P

SLAMF7 (Signaling lymphocytic activation molecule F7) also known as CS1 (CD2 subset 1), CRACC (CD2-like receptor-activating cytotoxic cell) and CD319, is a type I transmembrane protein and a member of the SLAM receptors family. SLAM receptors modulate the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. SLAMF7 is abundantly present in most cases of multiple myeloma (MM), a nearly universally fatal malignancy of plasma cells. Targeting SLAMF7 with Elotuzumab, a humanized mAb against SLAMF7 is approved for the treatment of relapsed MM. The anti-tumor effects of elotuzumab include disrupting MM cell adhesion to bone marrow stromal cells, enhancing NK cell cytotoxicity, and mediating antibody-dependent cell-mediated cytotoxicity (ADCC), but not complement-mediated cytotoxicity (CDC) (4). SLAMF7 is also found on natural killer (NK) cells, activated T cells, most B cells and myeloid cells. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated version is for research use only.**

SOX2



Squamous stained with anti-Human SOX2 using DAB chromogen

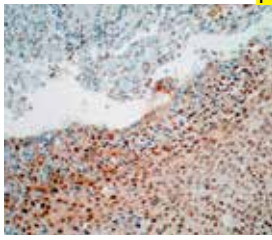
Clone: EP103
Isotype: IgG
Source: Rabbit
Immunogen: A synthetic peptide corresponding to residues in human SOX2 protein
Specificity: Human SOX2
Localization: Nucleus
Pre-treatment: EZ-AR2 elegance
Manual/i6000: HK547-XAK
Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN833-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN833-10M AY833-YCD, AY833-50D NU833-UC, NU833-5UC NU833-1UC
Concentrated:	NU833-UC, NU833-5UC NU833-1UC
Recommended Positive Control:	FG-833N
Recommended Barrier Control:	FB-833N

SOX2 is a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. It is required for stem cell maintenance in the central nervous system, and it also regulates gene expression in the stomach. SOX2 is necessary for regulating multiple transcription factors that affect Oct3/4 expression. An essential function of SOX2 is to stabilize embryonic stem cells in a pluripotent state by maintaining the requisite level of Oct3/4 expression.



SOX2



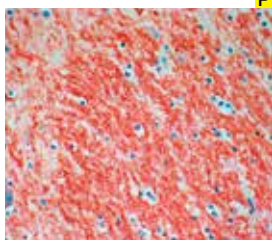
Uterus carvex stained with anti-Human SOX2 using DAB chromogen

P
 Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to SOX2 that is not observed in cystolic extracts
 Specificity: Human SOX2
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR788-5R
Ready-to-Use (Automated): i6000™ Xmatrix®	AR788-10R AW788-YCD, AW788-50D
Concentrated:	PU788-UP, PU788-5UP PU788-1UP
Recommended Positive Control:	FG-788P
Recommended Barrier Control:	FB-788P

SOX 2 is also known as SRY related HMG BOX gene 2. All SOX proteins have a single HMG box and bind linear DNA in a sequence specific manner, resulting in the bending of DNA through large angles. Bending causes the DNA helix to open for some distance, which may affect binding and interactions of other transcription factors. SOX1, SOX2 and SOX3 show the closest homology to SRY. They share maximum homology within the HMG domain and are expressed mainly in the developing nervous system of the mouse. These genes share significant homology outside the HMG box also and are highly conserved throughout their evolution.

Substance P



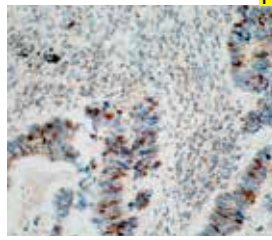
Brain tissue stained with Anti-Substance P using AEC chromogen

P
 Clone: Polyclonal
 Source: Rabbit
 Immunogen: Synthetic Substance P bound to keyhole limpet hemocyanin (KLH)
 Specificity: Substance P
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR069-5R
Ready-to-Use (Automated): i6000™ Xmatrix®	AR069-10R AW069-YCD, AW069-50D
Concentrated:	PU069-UP, PU069-5UP PU069-1UP
Recommended Positive Control:	FG-069P
Recommended Barrier Control:	FB-069P

Substance P is one of several neuroendocrine polypeptides localized in both the nervous system and gastrointestinal tract. Substance P is grouped into a family with bombesin and neurotensin because all three peptides are located in both brain and gut and terminate with a common dipeptide sequence (-Leu-Met-NH₂) at the amino terminal end. Substance P is found in most mid-gut and about half of fore-gut and hind-gut intestinal carcinoids. This antibody cross-reacts with other species including chicken and opossum. This antibody stains Substance P in nerve fibers.

Survivin



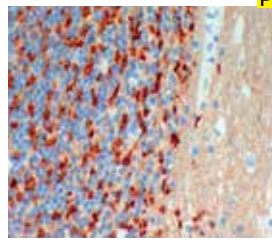
Colon cancer tissue stained with anti-Human Survivin using DAB chromogen

P
 Clone: EP119
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the N-terminus of human Survivin protein
 Specificity: Human Survivin
 Localization: Nucleus/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN826-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AN826-10M AY826-YCD, AY826-50D
Concentrated:	NU826-UC, NU826-5UC NU826-1UC
Recommended Positive Control:	FG-826N
Recommended Barrier Control:	FB-826N

The association of survivin expression with tumor progression, but not overall patient survival, has been observed in a variety of malignancies including renal cell carcinoma, ovary carcinoma, hepatocellular carcinoma, prostate carcinoma and breast carcinoma. However, the link between a poor prognosis and nuclear expression of Survivin in tumors is controversial. A literature review of 19 publication that measured nuclear survivin in different cancer types showed the following: 9 studies concluded that nuclear survivin was associated with an unfavorable prognosis, whereas 5 showed a favorable prognosis. The authors concluded that the nuclear pool of survivin is involved in promoting cell proliferation in most (if not all) cases, whereas the cytoplasmic pool of survivin may participate in controlling cell survival but not cell proliferation.

Synaptophysin



Cerebellum stained with Anti-Synaptophysin using AEC chromogen

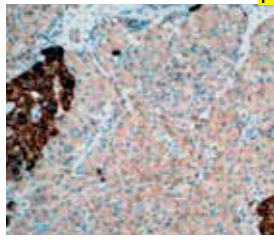
P
 Clone: Snp88
 Isotype: IgG3 Kappa
 Source: Mouse
 Immunogen: Recombinant human synaptophysin
 Specificity: Synaptophysin protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1 elegance
 Manual/i6000: HK546-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM363-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM363-10M AX363-YCD, AX363-50D
Concentrated:	MU363-UC, MU363-5UC
Recommended Barrier Control:	FB-363M
Recommended Positive Control:	FG-363M

Synaptophysin, a 38 kD glycoprotein, is the major integral membrane protein of synaptic vesicles. It is a sensitive quantitative molecular marker of synaptic density and also a useful marker in the identification and characterization of neuronal and neuroendocrine neoplasms of the adrenal medullary, pituitary, thyroid and islet cell tumors, gastrointestinal, bronchial, thymic and pancreatic carcinoid tumors. Immunohistochemistry of synaptophysin has been used in the evaluation of functional bowel disorders, cortical epileptogenesis, schizophrenia and amyotrophic lateral sclerosis.



Synaptophysin



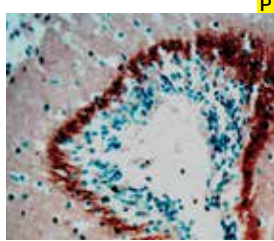
Pancreas stained with anti-Human Synaptophysin using DAB chromogen

Clone: EP158
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to residues on the C-terminus (cytoplasmic domain) of human Synaptophysin protein
 Specificity: Human Synaptophysin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN857-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN857-10M AY857-YCD, AY857-YCD
Concentrated:	NU857-UC, NU857-5UC NU857-1UC
Recommended Positive Control:	FG-857N
Recommended Barrier Control:	FB-857N

Synaptophysin is a major integral transmembrane glycoprotein of synaptic vesicles with four transmembrane domains. This protein is present in almost all neurons and neuroendocrine cells throughout the body. An antibody to Synaptophysin is useful for the identification of tumors with neural and neuroendocrine differentiation.

Tau



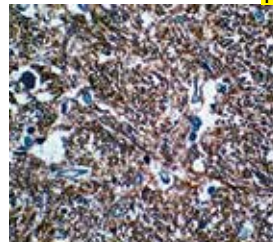
Cerebellum stained with Anti-Tau using DAB chromogen

Clone: Tau-2
 Isotype: IgG1
 Source: Mouse
 Immunogen: Purified bovine Microtubule Associated Protein Tau (MAPT)
 Specificity: Tau protein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1 elegance
 Manual/i6000: HK546-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM412-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM412-10M AX412-YCD, AX412-50D
Concentrated:	MU412-UC, MU412-5UC MU412-1UC
Recommended Positive Control:	FG-412M
Recommended Barrier Control:	FB-412M

Tau's major role is to regulate neuronal microtubule assembly and stability thus playing a major role in movement disorders. Neurofibrillary tangles (NFTs), one of the histopathological signs of Alzheimer's Disease, contain a lot of incorporated Tau protein. Anti-Tau antibody shows strong positive staining in NFT areas and may also stain pick bodies in Pick's Disease. In normal tissue, the antibody may stain neurons and axons in the brain and spinal cord. This antibody stains the cytoplasm of neurons and its connected axon.

Tau



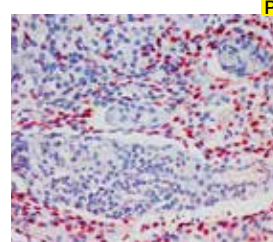
Tau expression in normal brain tissue stained using DAB chromogen

Clone: Tau-5
 Isotype: IgG1
 Source: Mouse
 Immunogen: Human Tau
 Specificity: Tau
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrx: HX031-YCD

Ready-to-Use (Manual):	AM459-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AM459-10M AX459-YCD, AX459-50D
Concentrated:	MU459-UC, MU459-5UC MU459-1UC
Recommended Positive Control:	FG-459M
Recommended Barrier Control:	FB-459M

This antibody recognizes proteins of 45-68 kD, identified as tau proteins. The Tau monoclonal antibody reacts with the non-phosphorylated as well as the phosphorylated forms of tau. Tau proteins are members of the microtubule associated proteins (MAPs) that stabilize neuronal microtubules in cell processes, establishment of cell polarity and intracellular transport. Six isoforms, ranging from 352 to 441 amino acids, are generated from a single Tau gene by alternative splicing in the human central nervous system. In Alzheimer's disease, abnormally phosphorylated, tau proteins aggregate into paired helical filaments and lose their ability to maintain the microtubule tracks. Missense Tau mutations in individuals with a type of frontotemporal dementia, FTDP 17, have been discovered.

Terminal Deoxynucleotidyl Transferase (TdT)



Thymoma stained with Anti-Terminal deoxynucleotidyl Transferase (TdT) using AEC chromogen

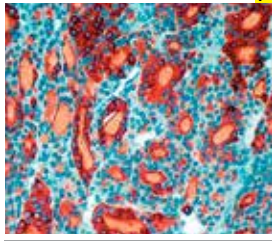
Clone: EP266
 Isotype: IgG
 Source: Rabbit
 Immunogen: Peptide containing specific sequence for N-terminal of human TdT protein
 Specificity: TdT
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrx: HX032-YCD

Ready-to-Use (Manual):	AN881-5M
Ready-to-Use (Automated): i6000™ Xmatrx®	AN881-10M AY881-YCD, AY881-50D
Concentrated:	NU881-UC, NU881-5UC NU881-1UC
Recommended Positive Control:	FG-881N
Recommended Barrier Control:	FB-881N

This antibody identifies a 58 kD peptide normally found in cortical thymocytes and immature bone marrow lymphocytes. TdT expression has been reported to occur in a majority of cases of acute lymphocytic leukemia (ALL) cases. TdT staining is found in all subtypes of ALL with the exception of pre-B-cell ALL. TdT positivity has also been observed in approximately one third of all cases of chronic myeloid leukemia. TdT positive staining is found in ALL, acute myeloid leukemia and chronic myeloid leukemia. This antibody stains predominantly nuclear TdT in normal and neoplastic cells.



Thyroglobulin



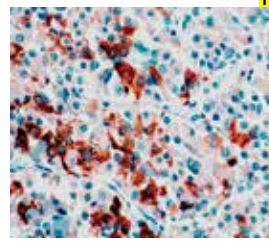
Follicular adenoma stained with anti-Thyroglobulin using AEC chromogen

Clone: 2H11
 Isotype: IgG1
 Source: Mouse
 Immunogen: Purified human thyroglobulin
 Specificity: Thyroglobulin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM032-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM032-10M
Xmatrix [®]	AX032-YCD, AX032-50D
Concentrated:	MU032-UC, MU032-5UC
Recommended Positive Control:	FG-032M
Recommended Barrier Control:	FB-032M

Thyroglobulin is a 19S glycoprotein with a molecular mass of approximately 650 kD. It constitutes 85-100% of the total of all thyroid iodoproteins. Immunohistochemical studies of thyroid carcinomas have revealed that a high portion of differentiated thyroid carcinomas synthesize thyroglobulin. Positive thyroglobulin staining indicates thyroidal origin of the tumor. Immunohistochemical and electron microscopic findings have disclosed a wide range of cellular differentiation in thyroid adenomas.

Thyroid Stimulating Hormone (TSH)



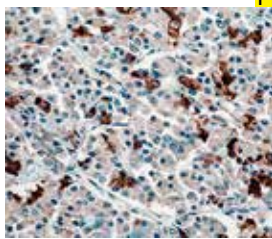
Pituitary cell showing cytoplasmic positivity for TSH stained using AEC chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: Purified TSH from human pituitary gland
 Specificity: Thyroid Stimulating Hormone (TSH)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR033-5R
Ready-to-Use (Automated):	
<i>i6000</i> TM	AR033-10R
Xmatrix [®]	AW033-YCD, AW033-50D
Recommended Positive Control:	FG-033P
Recommended Barrier Control:	FB-033P

Thyrotrophs produce Thyroid Stimulating Hormone (TSH). TSH is a 28 kD glycoprotein that contains 201 amino acid residues and is composed of alpha and beta subunits. The alpha subunit (MW 13kD) is immunologically similar to the alpha subunit of the other anterior pituitary hormones. The beta subunit is unique to TSH and is responsible for the specific biological activity of TSH. To identify thyrotrophs without cross-reactivity with gonadotrophs, antibodies directed to the TSH beta subunit must be used. This antibody stains positive for TSH in cytoplasm of thyrotrophs.

Thyroid Stimulating Hormone (TSH)



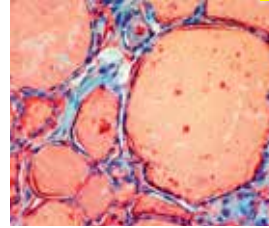
Pituitary cell showing cytoplasmic positivity for TSH stained using DAB chromogen

Clone: 5404
 Isotype: IgG1 Kappa
 Source: Mouse
 Immunogen: TSH
 Specificity: Thyroid Stimulating Hormone (TSH)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM033-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM033-10M
Xmatrix [®]	AX033-YCD, AX033-50D
Concentrated:	MU033-UC, MU033-5UC MU033-1UC
Recommended Positive Control:	FG-033M
Recommended Barrier Control:	FB-033M

Thyrotrophs produce Thyroid Stimulating Hormone (TSH). TSH is a 28 kD glycoprotein that contains 201 amino acid residues and is composed of alpha and beta subunits. The alpha subunit (MW 13kD) is immunologically similar to the alpha subunit of the other anterior pituitary hormones. The beta subunit is unique to TSH and is responsible for the specific biological activity of TSH. To identify thyrotrophs without cross-reactivity with gonadotrophs, antibodies directed to the TSH beta subunit must be used. This antibody stains TSH and b-TSH in cytoplasm of positive cells.

Thyroxine



Thyroid tissue stained with Anti-Thyroxine using AEC chromogen

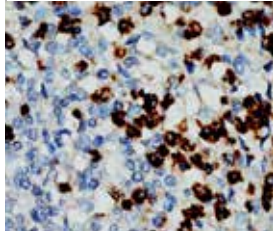
Clone: D5
 Isotype: IgG1
 Source: Mouse
 Immunogen: Me-Thyroxine conjugated to bovine serum albumin
 Specificity: Thyroxine (T4)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: None
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM034-5M
Ready-to-Use (Automated):	
<i>i6000</i> TM	AM034-10M
Xmatrix [®]	AX034-YCD, AX034-50D
Concentrated:	MU034A-UC, MU034A-5UC
Recommended Positive Control:	FG-034M
Recommended Barrier Control:	FB-034M

The main hormones produced by the thyroid are Thyroxine (T4 or tetraiodothyronine) and, on a much smaller scale, triiodothyronine (T3). T4 and T3 have been demonstrated in normal and neoplastic thyroid follicular cells. In thyroid cancer, however, the iodine content may be 1/100 that of normal thyroid tissue, whereas thyroglobulin is much more abundant, occurring at 1/2 to 1/3 that of a normal thyroid. This antibody stains colloid in thyroid follicle and cytoplasm of thyroid follicular cells.



TIA-1



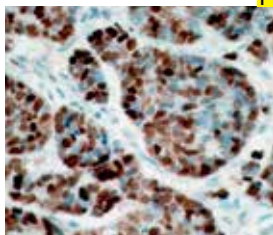
Anaplastic large T Cell Lymphoma stained with Anti-TIA using DAB chromogen

Clone: 2G9A10F5
 Isotype: IgG
 Source: Mouse
 Immunogen: Human bone marrow malignant cells from a non-B, non-T acute leukemia
 Specificity: TIA-1
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM529-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM529-10M AX529-YCD, AX529-50D
Concentrated:	MU529-UC, MU529-5UC
Recommended Positive Control:	FG-529M
Recommended Barrier Control:	FB-529M

The T cell intracellular antigen 1 (TIA-1) is a 17-kD cytoplasmic granule associated protein also designated as GMP-17, for granule membrane protein of 17 kD. The GMP-17/TIA-1 molecule is expressed in cells possessing cytolytic potential and could be involved in the signaling cascade of Fas (CD95)-mediated apoptosis. Within hematopoietic cell lines, the 2G9 monoclonal antibody (mAb) reacts with about 90% of CD16+, 50 – 60% of CD8+, and less than 10% of CD4+ normal peripheral blood lymphocytes. It reacts with almost all monocytes and granulocytes. This antibody also reacts with CD4+ activated T-cell clones, activated NK cell clones, and Con A activated thymocytes, but not with B lymphocytes or B-cell lines.

Topoisomerase II alpha



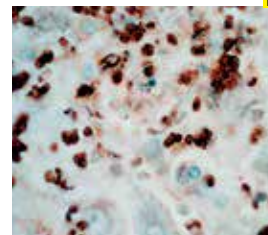
Breast cancer tissue stained with anti-Human Topoisomerase II alpha using DAB chromogen

Clone: EP93
 Isotype: IgG
 Source: Rabbit
 Immunogen: A synthetic peptide corresponding to C-terminal residues of human Topoisomerase II alpha (TOP2A) protein.
 Specificity: Human Topoisomerase II alpha
 Localization: Nucleus/Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN823-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN823-10M AY823-YCD, AY823-50D
Concentrated:	NU823-UC, NU823-5UC NU823-1UC
Recommended Positive Control:	FG-823N
Recommended Barrier Control:	FB-823N

DNA topoisomerase II alpha (Topo-II α) is an essential nuclear enzyme with its up-regulation demonstrated in different tumors. Topo II is required in chromatin condensation and segregation during mitosis. Topo II α is cell cycle regulated and its level peaks between G2 and M phase. It has been linked to cell proliferation and it may be the main isoform of Topo II involved mitotic processes. Topo II α passes one strand of DNA through a reversible break in a second DNA strand, which catalyzes the topological isomerization of DNA during cell cycle. Topo II α overexpression has been linked to a number of human malignancies and is the target for many chemotherapeutic agents. The majority of anticancer drugs targeting Topo II α initiate apoptosis by stabilizing the covalent complex formed between DNA and Topo II α .

Toxoplasma gondii



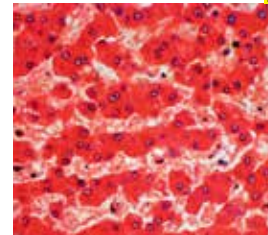
Infected cells stained with Anti-Toxoplasma using DAB chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: This antibody was produced by immunization of rabbits with live organisms of *Toxoplasma gondii* strain C56.
 Specificity: *Toxoplasma gondii*
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR125-5R
Concentrated:	PU125-UP, PU125-5UP PU125-1UP
Recommended Positive Control:	FG-125P
Recommended Barrier Control:	FB-125P

This antibody stains *Toxoplasma gondii* in the cytoplasm of infected cells or tissues stained by immunohistochemical techniques. **Analyte Specific Reagent. Analytical and performance characteristics are not established.**

Transferrin



Liver tissue stained with Anti-Transferrin using AEC chromogen

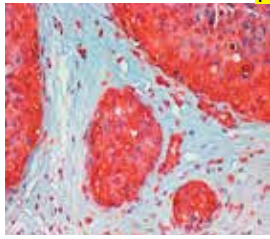
Clone: HT1/13.6.3
 Isotype: IgG1
 Source: Mouse
 Immunogen: Transferrin
 Specificity: Transferrin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM025-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM025-10M AX025-YCD, AX025-50D
Recommended Positive Control:	FG-025M
Recommended Barrier Control:	FB-025M

Human transferrin, an iron-binding protein, is produced mainly in the liver, and can be demonstrated within hepatocytes. Transferrin has also been demonstrated by immunohistology in a wide variety of other tissues including stomach, duodenum, gallbladder, thyroid, kidney, male and female reproductive tracts, skin, and in histiocytes. Such widespread occurrence of transferrin suggests evidence for the diverse roles that it may play such as iron transport across intestinal mucosa, intracellular iron transport, and providing non-specific immunity against micro-organisms by chelating free iron.



Transforming Growth Factor (TGF), Alpha



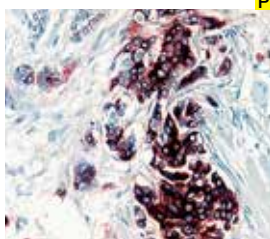
Breast carcinoma showing TGF positivity stained using AEC chromogen

P
 Clone: TGF88
 Isotype: IgG1
 Source: Mouse
 Immunogen: Synthetic peptide representing a unique epitope to pro-TGF- α covalently bound to keyhole limpet hemocyanin
 Specificity: Transforming growth factor, alpha (TGF- α)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM377-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM377-10M AX377-YCD, AX377-50D
Concentrated:	MU377-UC, MU377-5UC
Recommended Positive Control:	FG-377M
Recommended Barrier Control:	FB-377M

Transforming Growth Factor, alpha (TGF- α) is a 50 amino acid peptide that is involved in the regulation of normal and malignant cell growth. The mature peptide is released following proteolytic cleavage from a 160 amino acid transmembrane precursor molecule. It is one of the various ligands for EGFR and seem to be involved in the growth regulation of intestinal mucosa and might be related to the development and progression of gastrointestinal tumors. Macrophages secrete TGF- α to trigger proliferation of cancer cells. TGF- α is synthesized by several cells, like epidermal keratinocytes, fibroblasts, and cells of hematopoietic origin like eosinophils and simulated macrophages.

Tumor-Associated Glycoprotein (TAG-72)



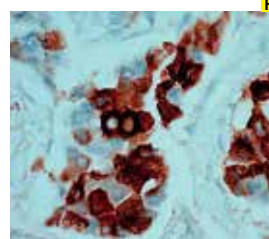
Breast carcinoma stained with Anti-TAG-72 (BCA) using DAB chromogen

P
 Clone: B72.3
 Isotype: IgG1
 Source: Mouse
 Immunogen: Membrane-enriched fraction of a breast carcinoma derived from a liver metastasis
 Specificity: Tumor-Associated Glycoprotein (TAG-72)
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 pretreatment

Ready-to-Use (Manual):	AM054-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM054-10M AX054-YCD, AX054-50D
Concentrated:	MU054-UC, MU054-5UC
Recommended Positive Control:	FG-054M
Recommended Barrier Control:	FB-054M

Tumor-Associated Glycoprotein 72 (TAG-72) is an oncofetal mucin antigen expressed by normal secretory endometrium and most human adenocarcinomas, including colorectal, gastric, pancreatic, mammary, and ovarian. This antigen is expressed by invasive ductal breast carcinomas, colon, pancreatic, gastric, esophageal, lung, ovarian and endometrial adenocarcinomas. It is not expressed by leukemias, lymphomas, sarcomas, mesotheliomas, melanomas, or benign tumors. This antigen is also expressed on normal secretory endometrium, but not on other normal tissues. This antibody stains positive in the cytoplasm of specific carcinoma cells.

Tumor-Associated Glycoprotein (TAG-90, BCA)



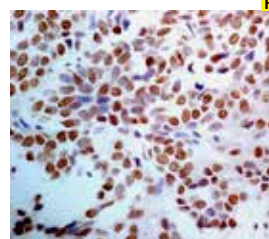
Breast carcinoma stained with Anti-TAG-90 (BCA) using DAB chromogen

P
 Clone: B6.2
 Isotype: IgG1
 Source: Mouse
 Immunogen: Membrane-enriched fraction of breast tumor metastatic to the liver
 Specificity: 90 kD tumor-associated glycoprotein
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM005-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AM005-10M AX005-YCD, AX005-50D
Concentrated:	MU005-UC, MU005-5UC
Recommended Positive Control:	FG-005M
Recommended Barrier Control:	FB-005M

Clone B6.2 recognizes a 90 kD glycoprotein in mammary carcinomas, metastatic lymph nodes, lung carcinomas, and adenocarcinomas. This antibody reacts intensely with tumor cells, yet is unreactive with cells in normal tissue. This antibody reacts equally with breast cancer, breast fibroadenoma, lobular carcinoma of the breast, duct carcinoma of the breast, and lung carcinoma. It also reacts with gastric and papillary adenocarcinomas, and adenocarcinoma of the colon, ovary, pancreas, lung and prostate. This antibody stains positive in the cytoplasm of tumor cells.

Thyroid Transcription Factor (TTF-1)



Thyroid tissue stained with anti-TTF-1 using DAB chromogen

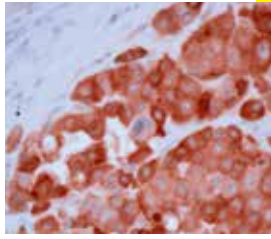
P
 Clone: SP141
 Isotype: IgG
 Source: Rabbit
 Immunogen: Recombinant TTF-1 protein
 Specificity: TTF-1
 Localization: Nucleus
 Pre-treatment: EZ-AR2 elegance
 Manual: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN887-5M
Ready-to-Use (Automated): i6000™ Xmatrix®	AN887-10M AY887-YCD, AY887-50D
Concentrated:	NU887-UC, NU887-5UC
Recommended Positive Control:	FG-887N
Recommended Barrier Control:	FB-887N

Thyroid Transcription Factor-1 (TTF-1), also known as thyroid-specific enhancer-binding protein (T/EBP), is a 40 kD protein that is a member of NKX2 family of homeodomain transcription factors that regulates the expression of thyroid- and lung-specific genes. It is a very selective marker for adenocarcinomas of lung and thyroid origin. Nuclear localization of this protein is seen in the epithelial cells of thyroid gland and lung. The anti-TTF-1 antibody is a useful tool for differentiating pulmonary adenocarcinoma from metastatic breast carcinoma and mesothelioma.



Tyrosinase



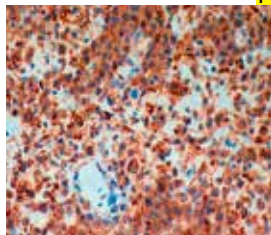
Melanoma stained with Anti-Tyrosinase using DAB chromogen

Clone: Ty/G5
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Human Tyrosinase
 Specificity: Tyrosinase
 Localization: Cytoplasm
 Pre-treatment: EZ-AR1/EZ-AR2 elegance
 Manual/i6000: HK546-XAK/HK547-XAK
 Xmatrix: HX031-YCD

Ready-to-Use (Manual):	AM535-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM535-10M AX535-YCD, AX535-50D
Concentrated:	MU535-UC, MU535-5UC
Recommended Positive Control:	FG-535M
Recommended Barrier Control:	FB-535M

Tyrosinase is a copper-containing enzyme present in plant and animal tissues that catalyzes the production of melanin and other pigments from tyrosine by oxidation. The gene for tyrosinase is regulated by the microphthalmia-associated transcription factor. A mutation in the tyrosinase gene resulting in impaired tyrosinase production results in type I oculocutaneous albinism, a hereditary disease that one in every 17,000 person has in the US. Anti-tyrosinase has been found to be quite specific for melanotic lesions such as malignant melanoma, and melanotic neurofibroma. Essentially no carcinomas express this marker.

VEGF



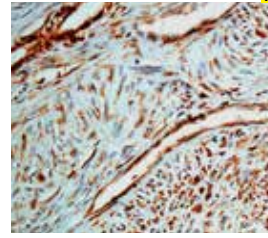
Angiosarcoma stained with Anti-VEGF using DAB chromogen

Clone: Polyclonal
 Source: Rabbit
 Immunogen: Human recombinant VEGF165
 Specificity: VEGF
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR483-5R
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AR483-10R AW483-YCD, AW483-50D
Concentrated:	PU483-UP, PU483-5UP
Recommended Positive Control:	FG-483P
Recommended Barrier Control:	FB-483P

Vascular endothelial factors (VEGFs) are a family of closely related growth factors having a conserved pattern of eight cysteine residues and sharing common VEGF receptors. VEGF receptors stimulate the proliferation of endothelial cells, induce angiogenesis, and increase vascular permeability in both large and small vessels. The mitogenic activity of VEGFs appears to be mediated by specific VEGF receptors.

Vimentin



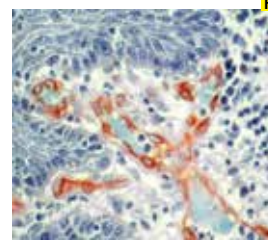
Skin stained with Anti-Vimentin Antibody using DAB chromogen

Clone: V9
 Isotype: IgG1
 Source: Mouse
 Immunogen: Vimentin purified from porcine eye lens
 Specificity: Vimentin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM074-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM074-10M AX074-YCD, AX074-50D
Concentrated:	MU074-UC, MU074-5UC MU074-1UC
Recommended Positive Control:	FG-074M
Recommended Barrier Control:	FB-074M

Vimentin is the major intermediate filament in a variety of mesenchymal or mesenchymally derived non-muscle cell types. Vimentin is found in all types of sarcomas and lymphomas. Positive staining for vimentin is seen in most cells of fibrosarcomas, liposarcomas, malignant fibrous histiocytomas, angiosarcomas, chondrosarcomas and lymphomas. When the vimentin antibody is used in combination with other antibodies as a panel, it can aid in the histological classification of normal and malignant tissues. This antibody immunohistochemically labels a variety of mesenchymal cells.

Vimentin, Non-Hematopoietic



Leiomyoma stained with anti-Vimentin using DAB chromogen

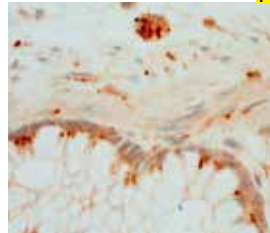
Clone: LN6
 Isotype: IgM
 Source: Mouse
 Immunogen: Human Thymic Nuclei
 Specificity: Non-hematopoietic vimentin
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM163-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM163-10M AX163-YCD, AX163-50D
Concentrated:	MU163-UC, MU163-5UC
Recommended Positive Control:	FG-163M
Recommended Barrier Control:	FB-163M

LN6 recognizes a unique epitope of vimentin, a 60 kD protein, not expressed in cells of hematopoietic derivation. LN6 can be useful in the immunohistological study of soft tissue disorders. It reacts strongly with sarcomas, melanomas and meningiomas. LN6 does not, however, stain leukocyte common antigen-positive tissues such as lymphomas and leukemias. In normal tissue, LN6 stains endothelium, muscle, fibroblasts, melanocytes, peripheral nerve, Sertoli cells, kidney mesangial cells and tubules, osteoblasts and periosteum. This antibody stains non-hematopoietic form of Vimentin in human sarcomas and normal cells of mesenchymal derivation but is nonreactive with cells of hematopoietic derivation.



VIP



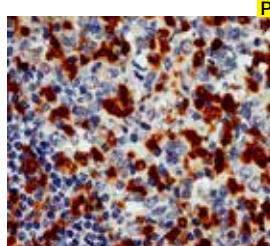
Intestine tissue stained with Anti-VIP using DAB as chromogen

Clone: Polyclonal
 Isotype: IgG
 Source: Rabbit
 Immunogen: Synthetic peptide corresponding to full length mature vasoactive intestinal peptide conjugated to Keyhole Limpet Haemocyanin
 Specificity: VIP
 Localization: Cytoplasm
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AR530-5R
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AR530-10R AW530-YCD, AW530-50D
Concentrated:	PU530-UP, PU530-5UP PU530-1UP
Recommended Positive Control:	FG-530P
Recommended Barrier Control:	FB-530P

Vasoactive intestinal peptide (VIP) is a 28 amino acid neuropeptide that has been isolated from various organs like intestine, the brain, upper respiratory and nasal mucosa, salivary glands, and the male and female genital tracts. It is also identifiable in human eosinophils, polymorphonuclear and mononuclear leucocytes. VIP is also known as a potent stimulant of mucous secretion, vasodilatation, and smooth muscle relaxation in bronchus and many other organs. According to various studies, VIP also has effects on the immune regulation. VIP is known to have inhibited the proliferative response of T lymphocytes to mercuric chloride, and inhibited natural killer (NK) cell function.

ZAP-70



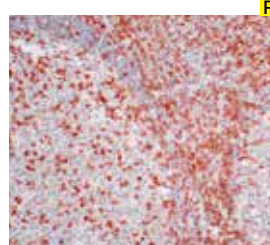
Tonsil tissue stained with Anti-ZAP-70 using DAB chromogen

Clone: ZAP70-C3
 Isotype: IgG2a
 Source: Mouse
 Immunogen: Human ZAP-70
 Specificity: ZAP-70
 Localization: Cytoplasm/Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AM544-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AM544-10M AX544-YCD, AX544-50D
Concentrated:	MU544-UC, MU544-5UC
Recommended Positive Control:	FG-544M
Recommended Barrier Control:	FB-544M

ZAP-70 is an abbreviation for Zeta-chain-associated protein kinase 70 (70 is the molecular weight in kD). The protein is a member in the protein-tyrosine kinase family. ZAP-70 protein is expressed in leukemic cells of approximately 25% of Chronic Lymphocytic Leukemia (CLL) cases. ZAP-70 expression is an excellent surrogate marker for the distinction between the Ig-mutated (ZAP-70 negative) and Ig-unmutated (ZAP-70 positive) CLL subtypes and can identify patient groups with divergent clinical courses. The ZAP-70 positive Ig-unmutated CLL cases have a poorer prognosis.

ZAP-70



Tonsil stained with anti-Human ZAP-70 using DAB chromogen

Clone: EP52
 Isotype: IgG
 Source: Rabbit
 Immunogen: Human ZAP-70 protein
 Specificity: Human ZAP-70
 Localization: Cytoplasm/Membrane
 Pre-treatment: EZ-AR2 elegance
 Manual/i6000: HK547-XAK
 Xmatrix: HX032-YCD

Ready-to-Use (Manual):	AN852-5M
Ready-to-Use (Automated): <i>i6000™</i> Xmatrix®	AN852-10M AY852-YCD, AY852-50D
Concentrated:	NU852-UC, NU852-5UC NU852-1UC
Recommended Positive Control:	FG-852N
Recommended Barrier Control:	FB-852N

ZAP-70, a Syk-family protein tyrosine kinase, plays a critical role in mediating T cell signal transduction in response to T cell antigen receptor (TCR) activation. It is primarily expressed in T cells and natural killer (NK) cells. It also labels mast cells, basophils and pro/pre B cells but not mature B cells. ZAP-70 antibody is useful in identification of the subtype of chronic lymphocytic leukemia (CLL). ZAP-70 is positive in CLL with mutation of the immunoglobulin heavy-chain variable region (IgVH) genes, but negative in CLL without IgVH mutation. ZAP-70 expression is associated with disease progression in CLL.



IHC Detection Systems





Super Sensitive™ IHC Detection Systems

Immunohistochemistry is a highly sensitive method that allows the localization of an antigen within a cell or a tissue with high resolution. The method is based on the use of a primary antibody that specifically binds to its complementary antigen. The bound antibody may then be visualized by a variety of methods such as colorimetric end points.

BioGenex offers three basic types of IHC Detection Systems:

I. Super Sensitive™ (SS) Polymer-HRP IHC Detection System

This is a novel detection system using a non-biotin polymeric technology that makes use of two major components: Super Enhancer and a Poly-HRP reagent. As the system is not based on the biotin-avidin system, problems associated with endogenous biotin are completely eliminated. The Enzyme Horseradish Peroxidase (HRP) catalyzes the conversion of chromogenic substrates (e.g. DAB, AEC) into colored products facilitating tissue staining.

Features & Benefits:

- High signal to noise ratio without endogenous biotin background
- Excellent sensitivity for weakly expressed antigens
- Universal system for rabbit and mouse antibodies
- Excellent cell penetration ability for intense nuclear, cytoplasmic and membrane antigen staining
- Enabling higher dilution of antibodies for reduced cost
- Available in Barcode labeled (Xmatrix or i6000) vials for automation or in drop bottles for easy to use manual staining

II. Super Sensitive™ (SS) One-Step Polymer-HRP IHC Detection System

All the benefits of SSPolymer-HRP IHC Detection System mentioned above with an easy and fast 15 minutes staining protocol

III. Super Sensitive™ (SS) Link-Label IHC Detection System

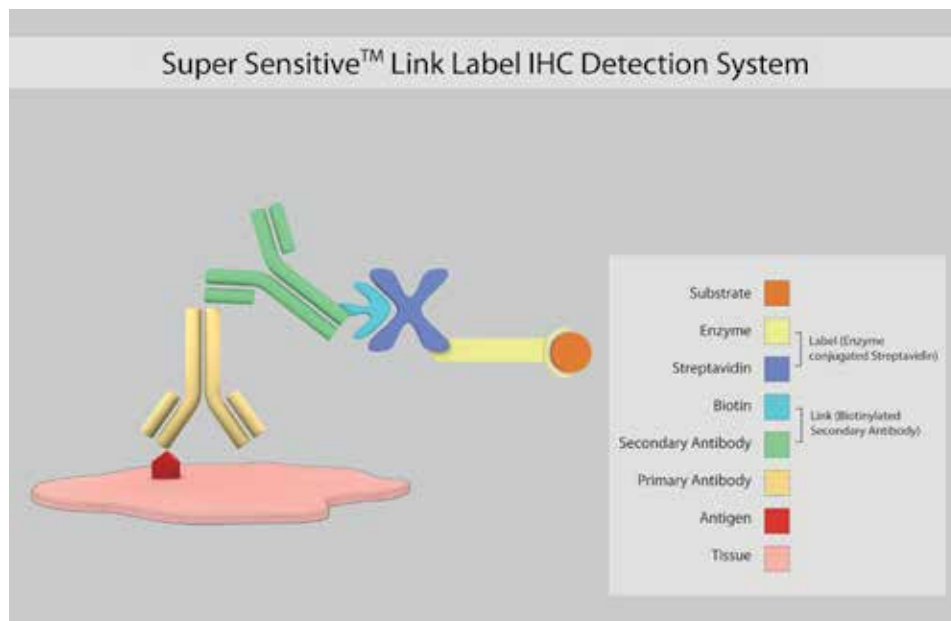
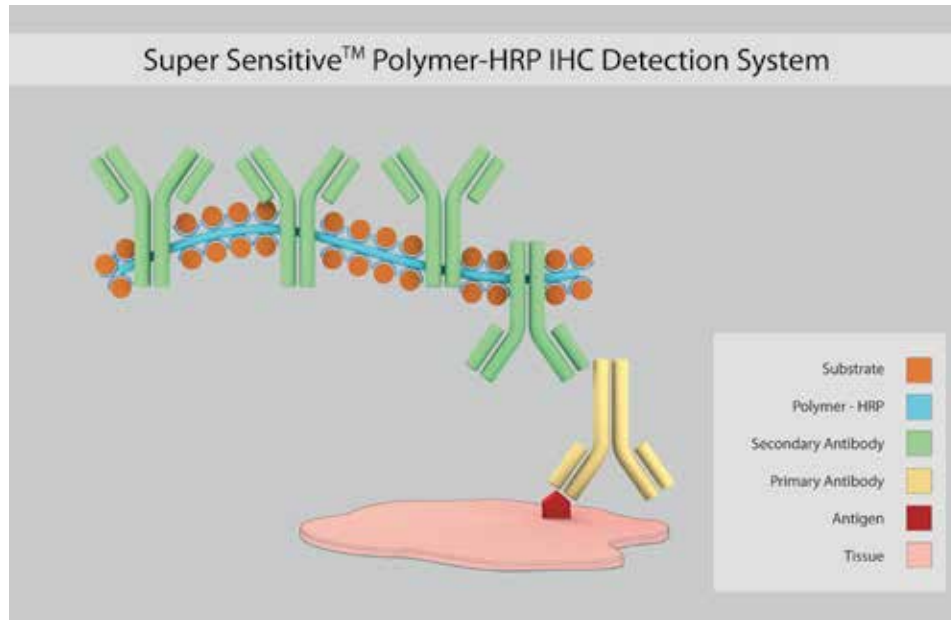
A classic system based on the highly specific and sensitive streptavidin-biotin interaction to detect a bound antibody. These kits include multi-Link – a mix of anti-mouse and anti-rabbit IgGs conjugated to multiple biotin molecules and a Label -Streptavidin conjugated with an enzyme (Horseradish peroxidase (HRP) or Alkaline Phosphatase (AP)). The reaction takes place in following steps:

1. Cells or tissues are prepared and incubated with an unlabeled primary antibody that will bind to the antigen.
2. The bound antibody is detected with a LINK (species-specific secondary antibody conjugated to biotin).
3. The bound secondary antibody is then allowed to react with Streptavidin conjugated with an enzyme (Label). Streptavidin binds extremely strongly and irreversibly to the biotin residues on the secondary antibody resulting in the addition of multiple enzyme to the primary antibody complex.
4. A substrate is then added and acted upon by the enzyme producing a highly visible precipitate. DAB or AEC substrates are available for HRP Labels while Fast Red, Elegance Red and New Fuchsin substrates are available for AP conjugated labels



Features & Benefits:

- Improved staining of weak antigens
- User-friendly and extensive choice of kit formats designed for use with human, animal or rodent tissue
- Wide choice of chromogens offered
- Excellent cell penetration ability for intense nuclear, cytoplasmic and membrane antigen staining
- Available in Barcode labeled (Xmatrix or i6000) vials for automation or in drop bottles for easy to use manual staining





Super Sensitive™ IHC Detection System kits Composition

For manual use (drop bottles)

For i6000 Automation (Barcode labeled)

For Xmatrx Automation (Elite - Barcode labeled vials)

Detection Systems - LINK LABEL (For mouse & rabbit antibodies)

SKU	Size	Multi-Link	Label	DAB buffer	DAB Chromogen	Peroxide block	Power block	Hematox.	Negative ctrl IgG
QA900-9LE	500 test	50 ml	AP 50 ml	-	-	-	-	-	-
QP900-9LE	500 test	50 ml	HRP 50 ml	-	-	-	-	-	-
QP300-XAKE	1000	100 ml	HRP 100 ml	-	-	-	-	-	-
LP000-ULE	1000+	5 ml (Conc.)	HRP 5 ml (Conc.)	-	-	-	-	-	-
LA000-ULE	1000+	5 ml (Conc.)	AP 5 ml (Conc.)	-	-	-	-	-	-

Detection Systems - Super Sensitive Polymer HRP (For mouse & rabbit antibodies)

SKU	Size	Super enhancer	Polymer-HRP	DAB buffer	DAB Chromo.	Peroxide block	Power block	Hematox.	EZ-AR Eleg. 1,2 & 3 Sol.	Negative ctrl IgG
QD400-60KE	60 test	6 ml	6 ml	10 ml	2 ml	6 ml	6 ml	6 ml	-	3 ml-Rabbit 3 ml-Mouse
QD420-YIKE	500 test	50 ml	50 ml	50 ml	5 ml	-	-	-	-	-
QD430-XAKE	1000 test	100 ml	100 ml	100 ml	10 ml	-	-	-	-	-
QD440-XAKE	1000 test	100 ml	100 ml	-	-	-	-	-	-	-
QD410-YAXE - i6000	200 test	20 ml	20 ml	5x10 ml	4ml	20 ml	20 ml	20 ml	-	-
QD550-YCXE Xmatrx -Infinity	200 test	15 ml	15 ml	5x11 ml	4 ml	4x16 ml	21 ml	21 ml	16ml	-
QD550-YCDE Xmatrx-Elite	200 test	16 ml	16 ml	4x11 ml + 5 barcode labeled vials	7 ml	3x16 ml	3x16 ml	3x16 ml	3x16ml	-

Detection Systems - Super Sensitive One-Step Polymer-HRP (For mouse & rabbit antibodies)

SKU	Size	Polymer-HRP	DAB buffer	DAB Chromo.	Peroxide block	Power block	Hematox	EZ-AR Eleg. 1,2 & 3 Sol.
QD620-YIKE	500 test	50 ml	50 ml	5 ml	-	-	-	-
QD630-XAKE	1000 test	100 ml	100 ml	10 ml	-	-	-	-
QD610-YAXE - i6000	200 test	16 ml	4x11 ml	4 ml	3x16 ml	3x16 ml	3x16 ml	-
QD610-YADE Xmatrx-Elite	200 test	16 ml	4x11 ml + 5 barcode labeled vials	7 ml	3x16 ml	3x16 ml	3x16 ml	3x16 ml



IHC Detection Systems - Links / Labels items-Manual

Product	5 mL ^(Conc.)	6 ml ^(RTU)	50 ml ^(RTU)
SS AP label	HK321-UK	HK331-5K	HK331-9K
SS Goat Link	N/A	HK337-5G	N/A
SS HRP label	HK320-UK	HK330-5K	HK330-9K
SS Mouse Link	HK325-UM	HK335-5M	HK335-9M
SS Multi Link (ANTI-mouse & rabbit)	N/A	HK340-5K	HK340-9K
SS Rabbit Link	HK326-UR	HK336-5R	HK336-9R
SS Rat Link	N/A	HK338-5T	N/A
Conc. Multi Link	HK268-UK	N/A	N/A

Substrates and Chromogens

BioGenex offers complete Substrate Packs for immunohistochemical staining with alkaline phosphatase and peroxidase labels. The kits are designed to reduce substrate preparation time and minimize exposure to chemical hazards. The chart below summarizes the substrates offered, indicating enzyme and standard mounting media compatibility.

Features & Benefits:

- High Resolution AEC and Liquid DAB
- Rapid Development Time
- Ready-to-Use Solutions
- Long-Term Stability

The chart below summarizes the compatibility of mounting medium, chromogens and counterstains

Chromogen	Stain Color	Enzyme used	Solubility in Alcohol/Xylene	Compatible with Hematoxylin	Compatible Mounting Media
AEC	Brick Red	HRP	Yes	Yes	Aqueous or Super Mount
DAB	Brown	HRP	No	Yes	Aqueous, Super Mount or Xmount
Elegance Red	Red	AP	No	Yes	Aqueous, Super Mount or Xmount
Fast Red	Red	AP	Yes	Yes	Aqueous or Super Mount
New Fuchsin	Red	AP	Yes	Yes	Aqueous or Super Mount

IHC - Substrates and Chromogens Packs – Manual & Open system**

Product Name	60 Tests*	250 Tests*	500 Tests*
Fast Red	NA	NA	HK182-5KE
Elegance Red	NA	NA	HK144-5KE
New Fuchsin (400 slides)	NA	NA	HK183-5KE
Two Component DAB (BUFFER+CHROMOGEN) (1000 slides)	NA	NA	HK542-XAKE
AEC (BUFFER+CHROMOGEN)	NA	HK092-5KE	NA
AEC One Step Sol.	HK139-06K	NA	HK139-50K

* 100 µl/test of prepared reagent

** Reagent vials for Xmatrix& i6000 open systems need to be purchased separately





Multi-Staining



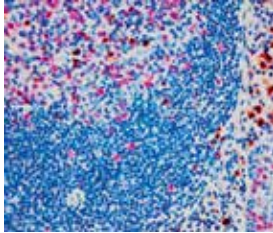


Double Staining

Super Sensitive™ Antibody Cocktails

- Pre-mixed and pre-optimized antibody cocktails
- More patient data per slide – testing multiple protein biomarkers simultaneously
- Easy and fast – staining with a 4-step protocol
- Saving costs by maximizing resources
- Excellent sensitivity and high antibody efficiency

Ki67 + Lambda



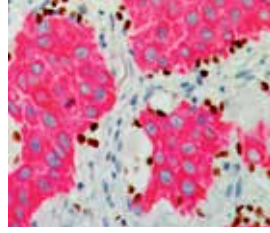
Source & Clone: Mouse K-2 + Rabbit polyclonal
 Isotype: IgG + Polyclonal
 Localization: Nucleus, Cytoplasm
 Pre-treatment: AR Citra Plus/ EZ-AR 1/ EZ-AR 2
 Manual/i6000™: HK081-5K
 Xmatrix: HX031-YCD/HX032-YCD

Tonsil stained with anti-Ki67 + Lambda

Ready-to-Use (Manual):	AC562-5M
Ready-to-Use (Automated) i6000™:	AC562-10M
Xmatrix®:	AC562-YCD, AC562-50D
Recommended Positive Control:	Tonsil

Ki67 is a nuclear protein present in cells at all phases of the cell cycle except G0. As such, Ki67 is a useful marker to identify the proliferation activity of cell populations. The staining of this activity, designated as the Ki67 labeling index, has shown to be clinically significant as a prognosis marker for breast, colorectal, skin cancer, and various lymphomas. The light chain is a polypeptide subunit of immunoglobulin expressed by B-cells. These B-cells are restricted to one of two subtypes of light chain, lambda or kappa. As a result, the light chain is a useful marker for lymphomas characterized as a monoclonal proliferation of B-cells. The Ki67 and lambda light chain cocktail is useful in evaluating cell proliferation of lambda light chain positive tumors.

TTF-1 + GCDFP-15



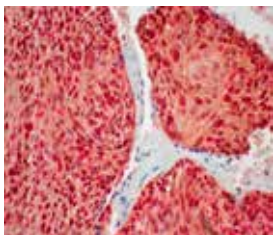
Source & Clone: Mouse BGX-397A + Rabbit EP1582Y
 Isotype: IgG1 Kappa + IgG
 Localization: Nucleus, Cytoplasm
 Pre-treatment: AR Citra/EZ-AR 1/EZ-AR 2
 Manual/i6000™: HK080-5K
 Xmatrix: HX031-YCD/HX032-YCD

Lung squamous cell carcinoma stained with Anti-TTF1 + GCDFP-15

Ready-to-Use (Manual):	AC604-5M
Ready-to-Use (Automated) i6000™:	AC604-10M
Xmatrix®:	AC604-YCD, AC604-50D
Recommended Positive Control:	Lung squamous carcinoma

Thyroid transcription factor-1 (TTF-1) is a sensitive marker for the diagnosis of primary pulmonary adenocarcinoma, and differentiation between poorly differentiated squamous cell carcinoma and small cell carcinoma and adenocarcinoma. Gross cystic disease fluid protein (GCDFP-15) is currently used as an immunohistochemical marker of breast cancer. TTF-1/GCDFP-15 immunohistochemical profile in lung tumors is highly suggestive of metastatic carcinoma of the breast. In distinguishing metastatic breast carcinoma and adenocarcinoma of the lung, the cytoplasmic staining would indicate breast carcinoma and nuclear staining would indicate lung or thyroid carcinoma.

p16 + Ki67



Source & Clone: Mouse G175-405 + Rabbit EPR3611
 Isotype: IgG + IgG
 Localization: Nucleus and/or Cytoplasm, Nucleus
 Pre-treatment: AR Citra Plus
 Manual/i6000™: HK080-5K
 Xmatrix: HX032-YCD

Cervical carcinoma stained with Anti-p16 + Ki67

Ready-to-Use (Manual):	AC601-5M
Ready-to-Use (Automated) i6000™:	AC601-10M
Xmatrix®:	AC601-YCD, AC601-50D
Recommended Positive Control:	FG-601C
Recommended Barrier Control:	FB-601C

p16/INK4A is a tumor-suppressor protein. The related genetic and epigenetic abnormalities in genes controlling the G1 checkpoint can lead to both escape from senescence and cancer formation. Ki-67 is a nuclear protein that is associated with and may be necessary for cellular proliferation. p16/Ki-67 immunostains are helpful to assess cervical biopsies for HPV-associated lesions. **For research use only, not for use in diagnostic procedures.**

RUO



Antibody Cocktails to be released soon

S.No	Catalog No. *	Description
1	AC559	CD3 + CD20
2	AC560	CD5 + CD23
3	AC561	CD10 + Cyclin D1
4	AC563	TTF-1 + CK5&6
5	AC597	CDX-2 + CK20 + CK7
6	AC605	TTF-1 + CK20 + CK7

* To be released soon



Double Staining

BioGenex Double Staining IHC products include pre-optimized antibody cocktails and Super Sensitive multiple detection systems, enabling simultaneous testing of multiple antigens on single slide with a fast and easy protocol, assisting rapid and accurate diagnosis.

Super Sensitive™ (SS) Double Staining Polymer Detection System

This double staining system is designed with novel polymer technology for fast and easy IHC staining of multiple antigens on a single slide. This system is pre-optimized for human tissues with superior sensitivity and specificity to produce precise and reliable results that allow easy interpretation and accurate diagnosis.

Features & Benefits:

- Pre-mixed and pre-optimized polymer cocktails
- Easy and fast – staining with a 4-step protocol
- Reduced costs by maximizing resources
- Clean and intense stain without endogenous biotin background
- Excellent sensitivity for weakly expressed antigens
- Excellent cell penetration ability for intense nuclear, cytoplasmic and membrane antigen staining
- Enabling higher dilution of antibodies for reduced cost
- Available in Barcode labeled vials for Xmatrx automation or in drop bottles for easy to use manual staining

SKU	Size	Anti-mouse Polymer-X	Anti-rabbit Polymer-Y	DAB buffer	DAB Chromo.	Peroxide block	Power block	Fast Red	Hematox	Negative ctrl IgG	EZ-AR Eleg. 1,2 & 3 Sol.
QS400-60KE	60 test	6 ml HRP	6 ml AP	10 ml	4 ml	12 ml	12 ml	20 ml A 20 ml B	-	6 ml Rb 6 ml Mo	-
QS200-60KE	60 test	6 ml AP	6 ml HRP	10 ml	4 ml	12 ml	12 ml	20 ml A 20 ml B	-	6 ml Rb 6 ml Mo	-
QS410-YIKE	500 test	50 ml HRP	50 ml AP	-	-	-	-	-	-	-	-
QS210-YIKE	500 test	50 ml AP	50 ml HRP	-	-	-	-	-	-	-	-
QS400-YADE Xmatrx-Elite	100 test	7 ml HRP	7 ml AP	4 x 5 ml	3 ml	2x10 ml	2x10 ml	2x14 ml A 2x14 ml B	3x10 ml	7 ml Rb 7 ml Mo	3x7 ml
QS200-YADE Xmatrx-Elite	100 test	7 ml AP	7 ml HRP	4 x 5 ml	3 ml	2x10 ml	2x10ml	2x14 ml A 2x14 ml B	3x10 ml	7 ml Rb 7 ml Mo	3x7 ml

For manual use

For Xmatrx Automation

Substrates and Chromogens

BioGenex offers complete Substrate Packs for immunohistochemical staining with alkaline phosphatase and peroxidase labels. The kits are designed to reduce substrate preparation time and minimize exposure to chemical hazards. The chart below summarizes the substrates offered, indicating enzyme and standard mounting media compatibility.

Features & Benefits:

- High Resolution AEC and Liquid DAB
- Rapid Development Time
- Ready-to-Use Solutions
- Long-Term Stability

The chart below summarizes the compatibility of mounting medium, chromogens and counterstains

Chromogen	Stain Color	Enzyme used	Solubility in Alcohol/Xylene	Compatible with Hematoxylin	Compatible Mounting Media
AEC	Brick Red	HRP	Yes	Yes	Aqueous or Super Mount
DAB	Brown	HRP	No	Yes	Aqueous, Super Mount or Xmount
Elegance Red	Red	AP	No	Yes	Aqueous, Super Mount or Xmount
Fast Red	Red	AP	Yes	Yes	Aqueous or Super Mount
New Fuchsin	Red	AP	Yes	Yes	Aqueous or Super Mount



ISH Probes & Detection Systems

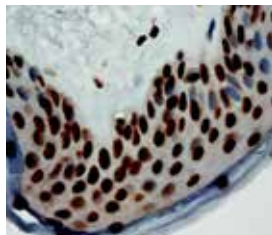




In situ Hybridization Probes

BioGenex offers fluorescein-labeled oligonucleotide probes for the detection of RNA or DNA by *in situ* Hybridization (ISH). These probes allow the localization of specific nucleic acid sequences within cells from formalin-fixed, paraffin-embedded tissue sections. When used with the BioGenex ISH Detection systems, these probes offer reliable, highly sensitive and easy-to-perform DNA and RNA assays.

Alu II Probe

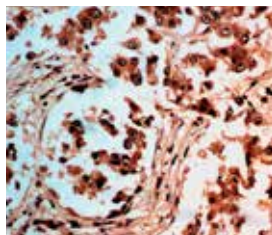


Ready-to-Use (Manual): PR026-100 (ASR)
 Specificity: Alu II DNA
 Ready-to-Use (Automated):
 Xmatrx: PR026-YAD (RUO)

Alu sequence detected in FFPE tissue stained with DAB

Alu, an important group of widely distributed sequences repeated in the human genome, has been widely used in *in situ* hybridization technique. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

Beta-Actin

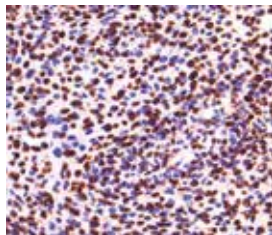


Ready-to-Use (Manual): PR1055-100 (ASR)
 Specificity: Beta-Actin RNA
 Ready-to-Use Automated):
 Xmatrx: PR1055-YAD (RUO)

Beta actin mRNA staining of breast cancer tissue

Actins are highly conserved proteins that participate in cell motility as well as cell structure and integrity. In normal cells, beta-actin mRNA is localized in cell protrusions where actin is actively polymerized. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

CerviPro HPV 14 DNA Probe

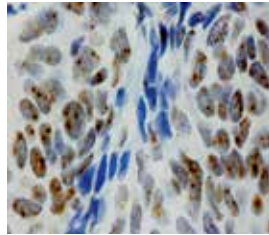


Ready-to-Use (Manual): PR251-100 (ASR)
 Specificity: HPV 14 genotypes
 Ready-to-Use (Automated):
 Xmatrx: PR251-YAD (RUO)

HPV 14 HR genotype in Ca Cervix tissue stained with DAB

The HPV 14 probe has been designed to specifically recognize regions of the L1 and E6/E7 open reading frames (ORFs) of human papillomavirus (HPV) 14 genotypes (HPV 16,18,31,33,35,39,45,51,52,56,58,59,66,68) in paraffin embedded human tissues or cytopathology specimens/cervical scraps. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

CerviPro HPV Type 16/18 DNA Probe

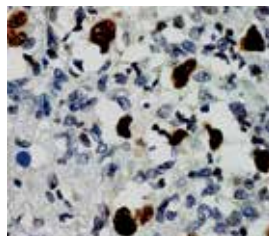


Ready-to-Use (Manual): PR250-100 (ASR)
 Specificity: HPV viral DNA sequences
 Ready-to-Use (Automated):
 Xmatrx: PR250-YAD (RUO)

HPV16/18 in Ca Cervix stained with DAB

The CerviPro HPV Type 16/18 DNA probe has been designed to recognize regions of the E1, E6, L1, and L2 open reading frames (ORFs) of human papillomavirus (HPV) genotypes in paraffin embedded human tissues or cytopathology specimens/cervical scraps. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

EBV-Encoded RNA (EBER) Probe

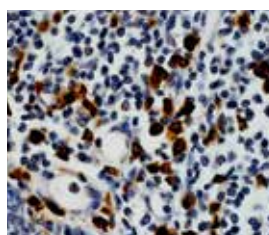


Ready-to-Use (Manual): PR205-100 (ASR)
 Specificity: EBV-encoded RNA
 Ready-to-Use Automated):
 Xmatrx: PR205-YAD (RUO)

Epstein-Barr early RNA (EBER) stained with DAB

Epstein-Barr virus-encoded RNA, EBER, is present in cells latently infected with Epstein-Barr virus (EBV). **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

Kappa Probe



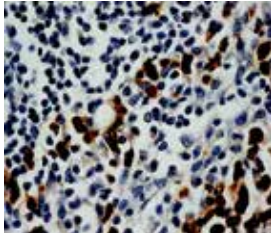
Ready-to-Use (Manual): PR214-100 (ASR)
 Specificity: Kappa light chain mRNA
 Ready-to-Use (Automated):
 Xmatrx: PR214-YAD (RUO)

Human immunoglobulin kappa light chain mRNA in tonsil stained with DAB

The light chains of immunoglobulin molecules have two antigenic types: kappa and lambda. A given immunoglobulin molecule contains two identical light chains, either kappa or lambda. Therefore, the clonal nature of any immunoglobulin producing cell population can be determined by the light chain structure of the immunoglobulin that the cell produces. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**



Lambda Probe

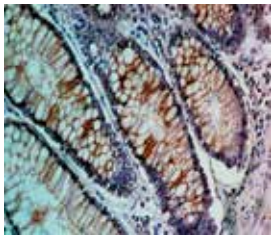


Human immunoglobulin lambda light chain mRNA in tonsil stained with DAB

Ready-to-Use (Manual): PR215-100 (ASR)
 Specificity: Lambda light chain mRNA
 Ready-to-Use (Automated):
 Xmatrx: PR215-YAD (RUO)

The light chains of immunoglobulin molecules have two antigenic types: kappa and lambda. A given immunoglobulin molecule contains two identical light chains, either kappa or lambda. Therefore, the clonal nature of any immunoglobulin producing cell population can be determined by the light chain structure of the immunoglobulin that the cell produces. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

Oligo d (T) Probe

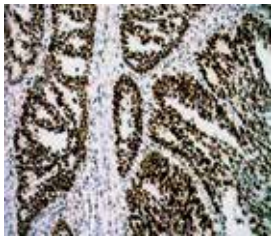


Preservation of oligo d (T) mRNA in FFPE tissue stained with DAB

Ready-to-Use (Manual): PR217-100 (ASR)
 Specificity: mRNA
 Ready-to-Use (Automated):
 Xmatrx: PR217-YAD (RUO)

In all living cells, the expression of genetic information involves transcription of RNA molecules. The initial transcripts named heterogeneous nuclear RNA (hnRNA) are processed into mature messenger RNA (mRNA) by removing non-coding intron sequences and adding the 5'-methyl cap and a 3'-tail of approximately 200 adenyl residues (poly (A)). In general, mRNA are conserved in routine formalin-fixed, paraffin-embedded tissues which have been fixed promptly. However, mRNA is not stable and may be destroyed during tissue processing of a routine formalin-fixed, paraffin-embedded tissue specimen. *in situ* hybridization with an oligo-d (T) probe is commonly used to assess the preservation of mRNA in a formalin-fixed, paraffin embedded tissue specimen. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

Retinoblastoma (RB) Probe

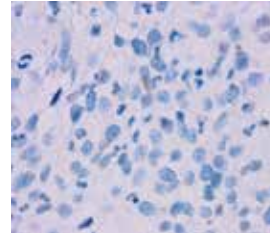


Retinoblastoma mRNA in Adenocarcinoma tissue stained with DAB

Ready-to-Use (Manual): PR225-100 (ASR)
 Specificity: retinoblastoma tumor suppressor gene
 Ready-to-Use (Automated):
 Xmatrx: PR225-YAD (RUO)

The retinoblastoma tumor suppressor gene, RB, encodes a protein of 110 KD that plays an important role in cell growth regulation. Alterations in Retinoblastoma (RB) mRNA expression have been reported in many human tumor types including lung cancer, osteosarcomas, leukemias, prostate cancer and bladder cancer. Increased expression of RB1 mRNA has been reported for many human colon tumor tissues and human colorectal cancer cell lines and Breast cancer. **Analyte Specific Reagent. Analytical and performance characteristics are not established. Automated versions are for research use only.**

Scramble probe

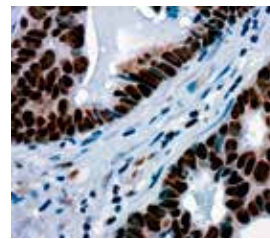


Negative staining of scrambled probe in FFPE tissue

Ready-to-Use (Manual): PR032-100
 Specificity: Negative control for ISH assays

The scramble probe sequence does not share homology with human mRNA or miRNA sequences available in the miR Base database. Scramble probe is used as a negative control during miRNA and ISH. **Analyte Specific Reagent. Analytical and performance characteristics are not established.**

U6 probe



U6 detected in FFPE tissue stained with DAB

Ready-to-Use (Manual) PR031-100
 Specificity human U6 small nuclear RNA

U6 snRNA is the non-coding small nuclear RNA (snRNA) component of U6 snRNP (small nuclearribonucleoprotein). The U6 snRNA sequence is highly conserved and the function of the U6 snRNA has remained crucial and unchanged through evolution. The U6 cellular transcript is available in abundance with intranuclear distribution in cell/tissue. The U6 probe is designed to bind to human U6 small nuclear RNA. **Analyte Specific Reagent. Analytical and performance characteristics are not established.**



ISH Probes

Probes for Automation are packaged with barcode labeled vials for staining up to 25 slides.
For a complete list of available ISH probes refer to the table below.

Product Name	Pack Size	Intended Use	Cat. No. (Manual)	Cat. No. (Automated)
Alu II Probe	25 slides	Alu II sequences	PR026-100	PR026-YAD
Beta Actin	25 slides	Initial standard	PR1055-100	PR1055-YAD
CerviPro HPV 14	25 slides	L1 and E6/E7 ORFs of HPV14	PR251-100	PR251-YAD
CerviPro HPV Type 16/18	25 slides	E1, E6, L1, and L2 open reading frames (ORFs) of HPV	PR250-100	PR250-YAD
EBER Probe	25 slides	EBV-encoded RNA	PR205-100	PR205-YAD
Kappa Probe	25 slides	Kappa light chain mRNA	PR214-100	PR214-YAD
Lambda Probe	25 slides	Lambda light chain mRNA	PR215-100	PR215-YAD
Oligo d (T) Probe	25 slides	mRNA	PR217-100	PR217-YAD
Retinoblastoma (RB) Probe	25 slides	Retinoblastoma tumor suppressor gene	PR225-100	PR225-YAD
ABL1	25 slides	v-abl Abelson murine leukemia viral oncogene homolog 1	PR261-100	PR261-YAD
BCL2	25 slides	B-cell CLL/lymphoma 2	PR262-100	PR262-YAD
BRAF	25 slides	v-raf murine sarcoma viral oncogene homolog B1	PR263-100	PR263-YAD
JAK2	25 slides	Janus Kinase 2	PR264-100	PR264-YAD
MYC	25 slides	v-myc myelocytomatosis viral oncogene homolog (avian)	PR265-100	PR265-YAD
TNF	25 slides	tumor necrosis factor (TNF superfamily, member 2)	PR266-100	PR266-YAD
TTF1	25 slides	transcription termination factor, RNA polymerase I	PR267-100	PR267-YAD
ALK	25 slides	anaplastic lymphoma kinase (Ki-1)	PR268-100	PR268-YAD
BRCA2	25 slides	breast cancer 2, early onset	PR269-100	PR269-YAD
CD68	25 slides	CD68 antigen	PR270-100	PR270-YAD
PCNA	25 slides	proliferating cell nuclear antigen	PR271-100	PR271-YAD
MPO	25 slides	Myeloperoxidase	PR272-100	PR272-YAD
MRC1	25 slides	Homo sapiens mannose receptor, C type 1	PR273-100	PR273-YAD
ARG1	25 slides	Homo sapiens arginase 1	PR274-100	PR274-YAD
ARG2	25 slides	arginase, type II	PR275-100	PR275-YAD
COL1A1	25 slides	collagen, type 1, alpha 1	PR276-100	PR276-YAD
SERPINE1	25 slides	Serine (or cysteine) proteinase inhibitor, clade E	PR277-100	PR277-YAD
WT1*	25 slides	Wilms Tumor 1	PR278-100	PR278-YAD
B2M*	25 slides	beta-2-microglobulin	PR279-100	PR279-YAD
KLF2*	25 slides	Kruppel-like factor 2 (lung)	PR280-100	PR280-YAD
AR*	25 slides	Androgen Receptor	PR281-100	PR281-YAD
PGR*	25 slides	Progesterone receptor	PR282-100	PR282-YAD
CDH1*	25 slides	cadherin 1, type 1, E-cadherin (epithelial)	PR283-100	PR283-YAD
AFP*	25 slides	Alpha-fetoprotein	PR284-100	PR284-YAD
GCG*	25 slides	Glucagon	PR285-100	PR285-YAD
INS*	25 slides	Insulin	PR286-100	PR286-YAD
FN1*	25 slides	fibronectin 1	PR287-100	PR287-YAD
CALCR*	25 slides	Calcitonin receptor	PR288-100	PR288-YAD
CTSB*	25 slides	cathepsin B	PR289-100	PR289-YAD
TLR4*	25 slides	Toll-like receptor 4	PR290-100	PR290-YAD
KRAS*	25 slides	v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog	PR291-100	PR291-YAD
EGFR*	25 slides	epidermal growth factor receptor	PR292-100	PR292-YAD

* To be released soon



MicroRNA Probes

MicroRNAs (miRNAs) are endogenous, non-coding RNAs known to regulate gene expression by translational repression or RNA cleavage. Since miRNA has been observed to deregulate during progression of different cancer stages from normal to malignant and metastasis, the expression profile as a result of this deregulation can be exploited as a potential biomarker for cancer characterization.

BioGenex MicroRNA Probes

Automated and manual protocols and for standardized manual ISH staining

- Optimized for automated ISH staining by Xmatrx ELITE
- Ready-to-Use reagents for FFPE tissues

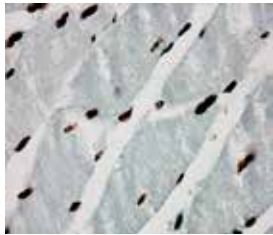
Highly Specific and Sensitive Probes

- Proprietary technology for clean, intense stains
- *in situ* context of tissue morphology

Examples of BioGenex miRNA staining

For additional images and information, please visit us at www.biogenex.com or contact us to request a BioGenex miRNA catalog

Hsa-miR-1

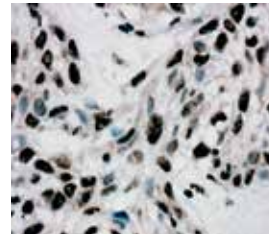


Ready-to-Use (Manual): HM001-100
Specificity: miR-1

Hsa-miR-1 detected in FFPE tissue stained with DAB

The Hsa-miR-1 probe has been designed from mature human miR-1 sequence. This fluorescencated probe is provided in a hybridization buffer for localization of miRNA in FFPE tissue by *in situ* hybridization. **Analyte Specific Reagent. Analytical and performance characteristics are not established.**

Hsa-miR-222

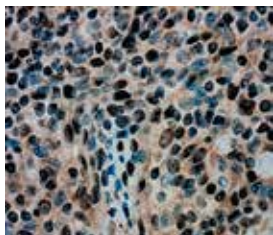


Ready-to-Use (Manual): HM222-100
Specificity: miR-222

Hsa-miR-222 detected in FFPE tissue stained with DAB

The Hsa-miR-222 probe has been designed from mature human miR-222 sequence. This fluorescencated probe is provided in a hybridization buffer for localization of miRNA in FFPE tissue by *in situ* hybridization. **Analyte Specific Reagent. Analytical and performance characteristics are not established.**

Hsa-miR-155

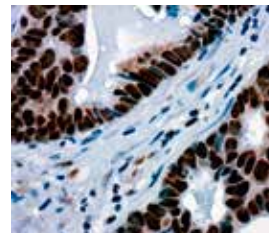


Ready-to-Use (Manual): HM155-100
Specificity: miR-155

Has-miR-155 detected in FFPE tissue stained with DAB

The Hsa-miR-155 probe has been designed from mature human miR-155 sequence. This fluorescencated probe is provided in a hybridization buffer for localization of miRNA in FFPE tissue by *in situ* hybridization. **Analyte Specific Reagent. Analytical and performance characteristics are not established.**

U6 probe



Ready-to-Use (Manual) PR031-100
Specificity human U6 small nuclear RNA

U6 detected in FFPE tissue stained with DAB

U6 snRNA is the non-coding small nuclear RNA (snRNA) component of U6 snRNP (small nuclear ribonucleoprotein). The U6 snRNA sequence is highly conserved and the function of the U6 snRNA has remained crucial and unchanged through evolution. The U6 cellular transcript is available in abundance with intranuclear distribution in cell/tissue. The U6 probe is designed to bind to human U6 small nuclear RNA. **Analyte Specific Reagent. Analytical and performance characteristics are not established.**



miRNA Probes

Product Name	Cat. No.	Product Name	Cat. No.	Product Name	Cat. No.
Has-miR-7a	HM007A-100	Hsa-miR-215	HM215-100	Hsa-miR-1247	HM1247-100
Hsa-miR-Let-7c	HM007C-100	Has-miR-216a	HM216A-100	Hsa-miR-125A	HM125A-100
Hsa-miR-7e	HM007E-100	Hsa-miR-218	HM218-100	Hsa-miR-138	HM138-100
Hsa-miR-9	HM009-100	Hsa-miR-221-3p	HM221-3P-100	Hsa-miR-142-3P	HM142-3P-100
Has-miR-10b	HM010B-100	Hsa-miR-331-3p	HM331-3P-100	Hsa-miR-146a	HM146A-100
Hsa-miR-15a	HM015A-100	Hsa-miR-335	HM335-100	Hsa-miR-148A	HM148A-100
Has-miR-17	HM017-100	Has-miR-375	HM375-100	Hsa-miR-148B	HM148B-100
Hsa-miR-17-3p	HM017-3P-100	Hsa-miR-378A	HM378A-100	Hsa-miR-149	HM149-100
Hsa-miR-18a	HM018A-100	Hsa-miR-383	HM383-100	Hsa-miR-150	HM150-100
Hsa-miR-19b-3p	HM019B-3P-100	Hsa-miR-412	HM412-100	Hsa-miR-153	HM153-100
Hsa-miR-21	HM021-100	Hsa-miR-422A	HM422A-100	Hsa-miR-155	HM155-100
Hsa-miR-23b	HM023B-100	Hsa-miR-423-3p	HM423-3P-100	Hsa-miR-181A	HM181A-100
Hsa-miR-27A	HM027A-100	Hsa-miR-483	HM483-100	Hsa-miR-181B	HM181B-100
Hsa-miR-27b	HM027B-100	Hsa-miR-505	HM505-100	Hsa-miR-1826	HM1826-100
Hsa-miR-29C	HM029C-100	Hsa-miR-615	HM615-100	Hsa-miR-192	HM192-100
Hsa-miR-30C	HM030C-100	Hsa-miR-622	HM622-100	Hsa-miR-195	HM195-100
Hsa-miR-30E	HM030E-100	Hsa-miR-629	HM629-100	Hsa-miR-206	HM206-100
Hsa-miR-96	HM096-100	Hsa-miR-641	HM641-100	Hsa-miR-210	HM210-100
Hsa-miR-101-3p	HM101-3P-100	Hsa-miR-648	HM648-100	Hsa-miR-212	HM212-100
Has-miR-106a	HM106A-100	Hsa-miR-663A	HM663A-100	Hsa-miR-214	HM214-100
Has-miR-125b	HM125B-100	Hsa-miR-708	HM708-100	Hsa-miR-222	HM222-100
Has-miR-126	HM126-100	Hsa-miR-1	HM001-100	Hsa-miR-224	HM224-100
Hsa-miR-127-3P	HM127-3P-100	Hsa-miR-let-7b	HM007B-100	Hsa-miR-297	HM297-100
Has-miR-1285	HM1285-100	Hsa-miR-let-7d	HM007D-100	Hsa-miR-328	HM328-100
Hsa-miR-133A	HM133A-100	Hsa-miR-let-7g	HM007G-100	Hsa-miR-329	HM329-100
Hsa-miR-133B	HM133B-100	Hsa-miR-15B	HM015B-100	Hsa-miR-361	HM361-100
Hsa-miR-135A	HM135A-100	Hsa-miR-19a	HM019A-100	Hsa-miR-362	HM362-100
Hsa-miR-135B	HM135B-100	Hsa-miR-20A	HM020A-100	Hsa-miR-365A-3P	HM365A-3P-100
Has-miR-141	HM141-100	Hsa-miR-21-3p	HM021-3P-100	Hsa-miR-373	HM373-100
Hsa-miR-143	HM143-100	Hsa-miR-22	HM022-100	Hsa-miR-409-3P	HM409-3P-100
Has-miR-144	HM144-100	Hsa-miR-24-3P	HM024-3P-100	Hsa-miR-410	HM410-100
Hsa-miR-146B	HM146B-100	Hsa-miR-26A	HM026A-100	Hsa-miR-424	HM424-100
Has-miR-147b	HM147B-100	Hsa-miR-28-3P	HM028-3P-100	Hsa-miR-429	HM429-100
Has-miR-151a-3p	HM151A-3P-100	Hsa-miR-28-5P	HM028-5P-100	Hsa-miR-449A	HM449A-100
Has-miR-152	HM152-100	Hsa-miR-30B	HM030B-100	Hsa-miR-451	HM451-100
Hsa-miR-181C	HM181C-100	Hsa-miR-31	HM031-100	Hsa-miR-486	HM486-100
Hsa-miR-182	HM182-100	Hsa-miR-34A	HM034A-100	Hsa-miR-494	HM494-100
Hsa-miR-187	HM187-100	Hsa-miR-650	HM0650-100	Hsa-miR-497	HM497-100
Hsa-miR-191	HM191-100	Hsa-miR-92A	HM092A-100	Hsa-miR-544	HM544-100
Hsa-miR-194	HM194-100	Hsa-miR-95	HM095-100	Hsa-miR-545-5P	HM545-5P-100
Has-miR-196a	HM196A-100	Hsa-miR-98	HM098-100	Hsa-miR-590	HM590-100
Hsa-miR-199a	HM199A-100	Hsa-miR-99A	HM099A-100	Hsa-miR-610	HM610-100
Has-miR-200a	HM200A-100	Hsa-miR-99B	HM099B-100	Hsa-miR-625	HM625-100
Has-miR-200b	HM200B-100	Hsa-miR-100	HM100-100	Hsa-miR-627	HM627-100
Hsa-miR-200C	HM200C-100	Hsa-miR-107	HM107-100	Hsa-miR-628	HM628-100
Hsa-miR-203A	HM203A-3P-100	Hsa-miR-1181	HM1181-100	Hsa-miR-630	HM630-100
Has-miR-204	HM204-100	Hsa-miR-122	HM122-100	Hsa-miR-718	HM718-100
Has-miR-205	HM205-100	Hsa-miR-124	HM124-100	Hsa-miR-802	HM802-100



miRNA Probes

Product Name	Cat. No.
Hsa-miR-9500	HM9500-100
Hsa-miR-128	HM128-100
Hsa-miR-139	HM139-100
Hsa-miR-190a	HM190a-100
Hsa-miR-190b	HM190b-100
Hsa-miR-193b	HM193b-100
Hsa-miR-302b	HM302b-100
Hsa-miR-326	HM326-100
Hsa-miR-382	HM382-100
Hsa-miR-384	HM384-100
Hsa-miR-433	HM433-100
Hsa-miR-489	HM489-100
Hsa-miR-491	HM491-100
Hsa-miR-498	HM498-100
Hsa-miR-514a	HM514a-100
Hsa-miR-524	HM524-100
Hsa-miR-675	HM675-100
Hsa-miR-766	HM766-100
Hsa-miR-1244	HM1244-100
Hsa-miR-3978	HM3978-100
Hsa-miR-16-5p	Inquire
Hsa-miR-451a	Inquire
hsa-409-5p	Inquire
hsa-miR-544a	Inquire
Hsa-miR-26b	Inquire
Hsa-miR-122	Inquire
Hsa-Mir-183-3p	Inquire
Hsa-miR-198	Inquire
Hsa-Mir-511	Inquire
Hsa-MiR-337	Inquire
Hsa-miR-486-3p	Inquire
Hsa-miR-614	Inquire
Hsa-miR-216b	Inquire
Hsa-miR-23a	Inquire
Hsa-MiR-24-2-5p	Inquire
Hsa-miR-6075	Inquire
Hsa-MiR-7843	Inquire
Hsa-MiR-802	Inquire
Hsa-Mir-101	Inquire
Hsa-MiR-138	Inquire
Hsa-MiR-142	Inquire
Hsa-MiR-193a-3p	Inquire
Hsa-miR-197	Inquire
Hsa-miR-217	Inquire
Hsa-miR-223	Inquire
Hsa-Mir-140	Inquire
Hsa-Mir-16	Inquire
Hsa-Mir-186	Inquire

Product Name	Cat. No.
Hsa-Mir-193b	Inquire
Hsa-Mir-25	Inquire
Hsa-Mir-338-3p	Inquire
Hsa-mir-1297	Inquire
Hsa-mir-381	Inquire
Hsa-mir-1258	Inquire
Hsa-mir-129	Inquire
Hsa-mir-132	Inquire
Hsa-mir-185	Inquire
Hsa-mir-34c	Inquire
Hsa-mir-7515	Inquire
Hsa-mir-136	Inquire
Hsa-mir-29a	Inquire
Hsa-mir-300	Inquire
Hsa-mir-296	Inquire
Hsa-mir-339	Inquire
Hsa-mir-374a	Inquire
Hsa-mir-379	Inquire
Hsa-mir-425	Inquire
Hsa-mir-450b-3p	Inquire
Hsa-mir-495	Inquire
Hsa-mir-502	Inquire
Hsa-mir-510	Inquire
Hsa-mir-517a-3p	Inquire
Hsa-mir-520	Inquire
Hsa-mir-574-3p	Inquire
Hsa-mir-638	Inquire
Hsa-mir-874	Inquire
Hsa-mir-183	Inquire
Hsa-mir-508-3p	Inquire
Hsa-mir-509-3p	Inquire
Hsa-mir-342-3p	Inquire
Hsa-mir-372	Inquire
Hsa-mir-944	Inquire
Hsa-mir-137	Inquire
Hsa-mir-184	Inquire
Hsa-mir-211	Inquire
Hsa-mir-376c	Inquire
Hsa-mir-532	Inquire
Hsa-mir-573	Inquire
Hsa-mir-1296	Inquire
Hsa-mir-130b	Inquire
Hsa-mir-154	Inquire
Hsa-mir-541	Inquire
Hsa-mir-29b-3p	Inquire
Hsa-mir-330	Inquire
Hsa-mir-374b	Inquire
Hsa-mir-4723	Inquire

Product Name	Cat. No.
Hsa-mir-642a	Inquire
Hsa-mir-765	Inquire
Hsa-mir-940	Inquire



Hybridization Detection System

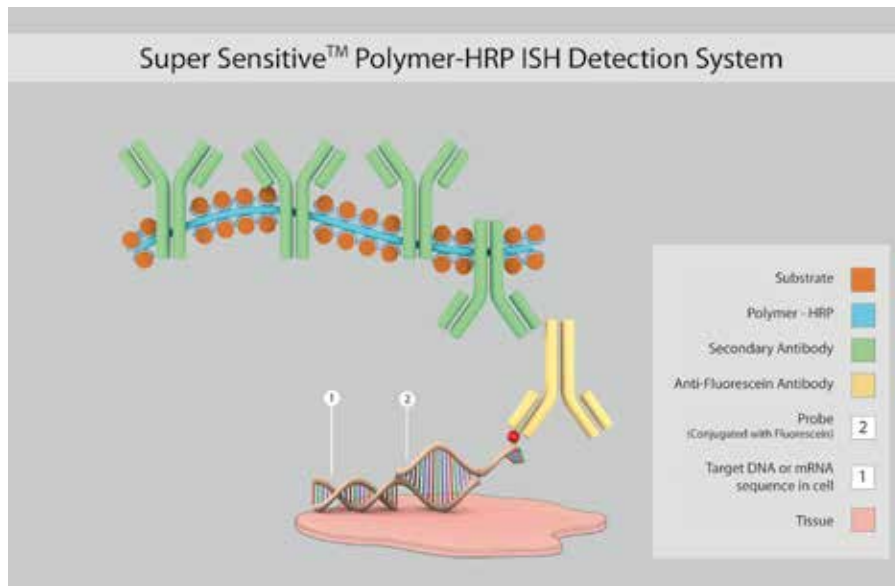
in situ Hybridization (ISH) is a powerful technique for detecting and localizing specific nucleic acid sequences within cells or tissues. This is achieved by the hybridization of a labeled probe to the specific RNA/DNA sequence within the cell and subsequent detection of the bound probe. ISH technique enables the semi-quantification of mRNA expression and helps determine the temporal and spatial patterns of gene expression in cells, tissue and whole animals. ISH technique can also be used for detection of intracellular pathogens with a very high degree of sensitivity.

Super Sensitive™ (Manual) & XISH (Xmatrx) One-Step Polymer-HRP Detection System

This is a novel detection system using a non-biotin polymeric technology that makes use of Poly-HRP reagent. As the system is not based on the Biotin-Avidin System, problems associated with endogenous biotin are completely eliminated. The technology allows excellent cell penetration ability for intense staining, compared with other polymer HRP.

Features & Benefits:

- Clean Stain without endogenous biotin background
- High signal to noise ratio for intense stain
- Universal system for all fluorescein labeled probes
- Available in barcode labeled (XISH kit) for Automation or in dropper bottles (Super Sensitive kit) for manual staining



ISH Detection Systems Composition

SKU	Size	α Fluor.	Polymer HRP	DAB buffer	DAB Chromo.	Peroxide block	Power block	Hematox	Prot. K	Hybrid. buffer	NAR-1	Washes A,B,E,F
DF400-25K	25 test	2 ml	2 ml	5 ml	2 ml	3 ml	3 ml	3 ml	3 ml	6 ml	2 ml	10 ml
DF400-50KE	50 test	3 ml	3 ml	10 ml	2 ml	5 ml	5 ml	5 ml	5 ml	6 ml	3 ml	20 ml
DF400-YADE Xmatrx-Elite	100 test	5 ml	5 ml	4x5 ml + 5 barcode labeled vials	7 ml	10 ml	10 ml	10ml	5 ml	NA	5 ml	2x10 ml

For manual use For Xmatrx Automation

Product	Size	Cat. No.	Description
NAR1	250 ml	HK873-5K	Microwave based nucleic acid retrieval for manual use only



Substrates and Chromogens

BioGenex offers complete Substrate Packs for immunohistochemical staining with alkaline phosphatase and peroxidase labels. The kits are designed to reduce substrate preparation time and minimize exposure to chemical hazards. The chart below summarizes the substrates offered, indicating enzyme and standard mounting media compatibility.

Features & Benefits:

- High Resolution AEC and Liquid DAB
- Rapid Development Time
- Ready-to-Use Solutions
- Long-Term Stability

The chart below summarizes the compatibility of mounting medium, chromogens and counterstains

Chromogen	Stain Color	Enzyme used	Solubility in Alcohol/Xylene	Compatible with Hematoxylin	Compatible Mounting Media
AEC	Brick Red	HRP	Yes	Yes	Aqueous or Super Mount
DAB	Brown	HRP	No	Yes	Aqueous, Super Mount or Xmount
Elegance Red	Red	AP	No	Yes	Aqueous, Super Mount or Xmount
Fast Red	Red	AP	Yes	Yes	Aqueous or Super Mount
New Fuchsin	Red	AP	Yes	Yes	Aqueous or Super Mount

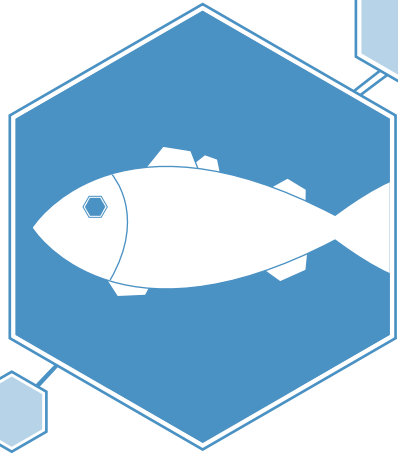
ISH - Substrates and Chromogens Packs – Manual & Open System **

Product Name	60 Tests ⁺	250 Tests ⁺	500 Tests ⁺ Large
Fast Red	NA	NA	HK182-5KE
Elegance Red	NA	NA	HK144-5KE
New Fuchsin (400 slides)	NA	NA	HK183-5KE
Two Component DAB (BUFFER+CHROMOGEN) (1000 slides)	NA	NA	HK542-XAKE
AEC (BUFFER+CHROMOGEN)	NA	HK092-5KE	NA
AEC One Step Sol.	HK139-06K	NA	HK139-50K

* 100 µl/test of prepared reagent

** Reagent vials for Xmatrix& i6000 open systems need to be purchased separately





eFISHiency





eFISHiency

Fluorescence *in situ* hybridization (FISH) is a robust cytogenetic technique used for the detection of chromosomal aberrations viz., deletions, amplification and translocation in tissue sections or within individual cells in native context. In this technique, fluorescent probes bind to the target sequence of DNA chromosome. High specificity and sensitivity, coupled with rapid and accurate results, have proven the role of FISH in both research and diagnosis of solid tumor and hematological malignancies. FISH is also used in genetic counseling, medicine and species identification. FISH can also be used to detect and localize specific RNA targets in cells, circulating tumor cells, and tissue samples.

In a FISH procedure, fixed tissue sections/cytology specimens are pretreated to expose target DNA or mRNA sequences. An appropriately labeled probe is hybridized to the exposed target in the cells, followed by stringent washing steps to remove non-specifically bound probe. Subsequently, slides are mounted using DAPI/antifade and can be visualized under fluorescence microscope using the appropriate filter set.

eFISHiency: Comprehensive high-throughput automated FISH processing systems

BioGenex offers the eFISHiency system, a complete solution for cytogenetic FISH laboratory requirements under one umbrella, consisting of eFISH probes, pretreatment kits and high-throughput automated/semi-automated platforms.

Sr #	eFISHiency	Components	Description
1	eFISH probes	FISH probes covering major genetic aberrations	Probes for detection and diagnosis of genetic aberrations
2	eFISH kits	eFISH Histo	eFISH kit for histology FFPE tissue samples
		eFISH Cyto	eFISH kit for cytology specimens
3	eFISH processing systems	Xmatrx® ELITE	World's only high-throughput front end system that processes FISH slides from microtome to microscope, including final coverslipping. 40 different protocols in combination of histology and cytology specimens/probes can be processed at a time.
		Xmatrx® NANO	10 slides semi-automated work station for small size FISH laboratory requirement with provision of manual pipetting of FISH probes, DAPI and costly reagents. 10 different protocols in combination of histology and cytology specimens/probes can be processed at a time
		Xmatrx® MINI	10 slides manual FISH processing platform with provision of on board pretreatment, dewaxing and washing. 10 different protocols in combination of histology and cytology specimens/probes can be processed at a time

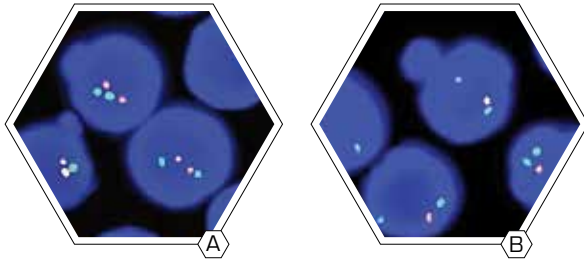


eFISHiency Integrated System a Game Changer...

- Affordable
- Reproducible
- Reliable

DELETION

eFISH TP53 / CEN17



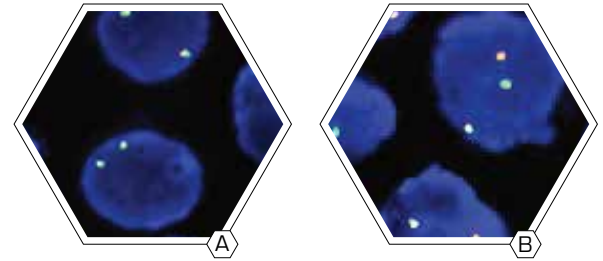
A. Normal interphase cells showing two orange and two green signals in each nucleus.

B. Bone marrow tissue with deletion of the TP53 gene as indicated by one orange signal and two green signals in each nucleus.



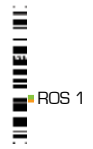
BREAK APART

eFISH ROS1



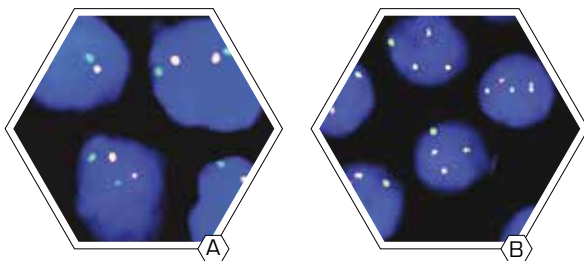
A. Normal interphase cells showing two orange/green fusion signals (yellow) in each nucleus.

B. Paraffin embedded NSCLC cells showing one orange/green fusion signal (non-rearranged). One orange signal, and one green signal indicating translocation of ROS1.



FUSION

eFISH BCR / ABL



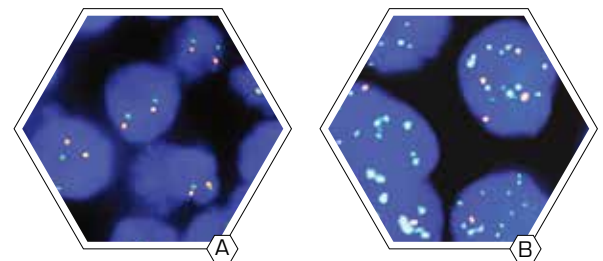
A. Normal interphase cells showing two orange and two green signals in each nucleus.

B. Bone marrow biopsy tissue with translocation affecting the BCR/ABL loci as indicated by one orange signal, one green signal and two orange/green fusion signals.



COPY NUMBER

eFISH FGFR1 / CEN8



A. Normal interphase cells showing two orange and two green signals in each nucleus.

B. Lung carcinoma tissue showing amplification of the FGFR1 gene (green) and partly polysomy 8 (orange).





eFISH Oncology Probes*

Product Description	Probe Type	Colors	Cat. No. (10 Tests)	Cat. No. (20 Tests)
eFISH 1p36/1q25	Gene Deletion	●/●	FP044-10X	FP044-20X
eFISH 19q13/19p13	Gene Deletion	●/●	FP045-10X	FP045-20X
eFISH ALK	Breakapart	●/●	FP056-10X	FP056-20X
eFISH CHOP	Breakapart	●/●	FP050-10X	FP050-20X
eFISH CMYC/CEN 8	Copy Number	●/●	FP065-10X	FP065-20X
eFISH COL1A1	Breakapart	●/●	FP054-10X	FP054-20X
eFISH COL1A1/PDGFB	Dual Fusion	●/●	FP052-10X	FP052-20X
eFISH EGFR/CEN 7	Copy Number	●/●	FP040-10X	FP040-20X
eFISH EWSR1	Breakapart	●/●	FP048-10X	FP048-20X
eFISH FGFR1/CEN 8	Copy Number	●/●	FP042-10X	FP042-20X
eFISH FGFR2/CEN 10	Copy Number	●/●	FP055-10X	FP055-20X
eFISH FOXO1	Breakapart	●/●	FP077-10X	FP077-20X
eFISH FUS	Breakapart	●/●	FP058-10X	FP058-20X
eFISH HER2/CEN17	Copy Number	●/●	FP039-10X	FP039-20X
eFISH MDM2/CEN 12	Copy Number	●/●	FP038-10X	FP038-20X
eFISH MET/CEN 7	Copy Number	●/●	FP047-10X	FP047-20X
eFISH NMYC/2q11	Copy Number	●/●	FP043-10X	FP043-20X
eFISH p16/CEN 9	Gene Deletion	●/●	FP041-10X	FP041-20X
eFISH PDGFB	Breakapart	●/●	FP053-10X	FP053-20X
eFISH PIK3CA/CEN 3	Copy Number	●/●	FP059-10X	FP059-20X
eFISH RB1/13q12	Gene Deletion	●/●	FP079-10X	FP079-20X
eFISH RET	Breakapart	●/●	FP061-10X	FP061-20X
eFISH ROS1	Breakapart	●/●	FP060-10X	FP060-20X
eFISH SYT	Breakapart	●/●	FP049-10X	FP049-20X
eFISH TERT/5q31	Copy Number	●/●	FP066-10X	FP066-20X
eFISH TFE3	Breakapart	●/●	FP051-10X	FP051-20X
eFISH TP53/CEN 17	Gene Deletion	●/●	FP062-10X	FP062-20X
eFISH VHL/CEN 3	Gene Deletion	●/●	FP046-10X	FP046-20X

eFISH Hematology Probes*

Product Description	Probe Type	Colors	Cat. No. (10 Tests)	Cat. No. (20 Tests)
eFISH ALK	Breakapart	●/●	FP056-10X	FP056-20X
eFISH AML1/ETO	Dual Fusion	●/●	FP072-10X	FP072-20X
eFISH BCL2/IGH	Dual Fusion	●/●	FP074-10X	FP074-20X
eFISH BCL6	Breakapart	●/●	FP080-10X	FP080-20X
eFISH BCR/ABL	Dual Fusion	●/●	FP071-10X	FP071-20X
eFISH BIRC3/MALT1	Dual Fusion	●/●	FP075-10X	FP075-20X
eFISH CCND1	Breakapart	●/●	FP069-10X	FP069-20X

* RUO Products: BioGenex dual/triple color FISH probes listed in the section are for Research Use Only (RUO)



eFISH Hematology Probes*

Product Description	Probe Type	Colors	Cat. No. (10 Tests)	Cat. No. (20 Tests)
eFISH CCND1/CEN 11	Copy Number	●/●	FP063-10X	FP063-20X
eFISH CCND1/IGH	Dual Fusion	●/●	FP057-10X	FP057-20X
eFISH CMYC	Breakapart	●/●	FP064-10X	FP064-20X
eFISH CMYC/CEN 8	Copy Number	●/●	FP065-10X	FP065-20X
eFISH CMYC/IGH	Dual Fusion	●/●	FP067-10X	FP067-20X
eFISH D13S319/ 13q34/CEN 12	Copy Number	●/●/●	FP078-10X	FP078-20X
eFISH EGR1/5p15	Gene Deletion	●/●	FP068-10X	FP068-20X
eFISH ETV6	Breakapart	●/●	FP083-10X	FP083-20X
eFISH ETV6/RUNX1	Dual Fusion	●/●	FP076-10X	FP076-20X
eFISH IGH	Breakapart	●/●	FP070-10X	FP070-20X
eFISH p16/CEN 9	Gene Deletion	●/●	FP041-10X	FP041-20X
eFISH PDGFRB	Breakapart	●/●	FP081-10X	FP081-20X
eFISH PML/RARA	Dual Fusion	●/●	FP073-10X	FP073-20X
eFISH RB1/13q12	Gene Deletion	●/●	FP079-10X	FP079-20X
eFISH TERT/5q31	Copy Number	●/●	FP066-10X	FP066-20X
eFISH TP53/CEN 17	Gene Deletion	●/●	FP062-10X	FP062-20X

eFISH Enumeration Probes*

Product Description	Probe Type	Colors	Cat. No. (10 Tests)	Cat. No. (20 Tests)
eFISH 1p12	Copy Number	●	FP084-10X	FP084-20X
eFISH 2q11	Copy Number	●	FP085-10X	FP085-20X
eFISH CEN 3	Copy Number	●	FP086-10X	FP086-20X
eFISH 4p11	Copy Number	●	FP087-10X	FP087-20X
eFISH CEN 6	Copy Number	●	FP088-10X	FP088-20X
eFISH CEN 7	Copy Number	●	FP089-10X	FP089-20X
eFISH CEN 8	Copy Number	●	FP090-10X	FP090-20X
eFISH CEN 9	Copy Number	●	FP091-10X	FP091-20X
eFISH CEN 10	Copy Number	●	FP092-10X	FP092-20X
eFISH CEN 11	Copy Number	●	FP093-10X	FP093-20X
eFISH CEN 12	Copy Number	●	FP094-10X	FP094-20X
eFISH 13q12	Copy Number	●	FP095-10X	FP095-20X
eFISH CEN 13/ CEN 18/CEN 21	Copy Number	●/●/●	FP096-10X	FP096-20X
eFISH CEN 17	Copy Number	●	FP097-10X	FP097-20X
eFISH CEN 18	Copy Number	●	FP098-10X	FP098-20X
eFISH 21q22	Copy Number	●	FP099-10X	FP099-20X
eFISH CEN X	Copy Number	●	FP100-10X	FP100-20X
eFISH CEN Yq12	Copy Number	●	FP101-10X	FP101-20X
eFISH CEN X/Yq12	Copy Number	●/●	FP102-10X	FP102-20X

* **RUO Products:** BioGenex dual/triple color FISH probes listed in the section are for Research Use Only (RUO)



eFISH Pretreatment Kits

eFISH Histo is designed to meet the FISH processing requirement of FFPE tissues while eFISH Cyto is designed for cytology and hematology specimens. Kits contain buffers and reagents for pretreatment and post hybridization stringency washes and are compatible on automation platforms: Xmatrix ELITE, Xmatrix NANO and Xmatrix MINI.

Product	SKU	Size	EZ-AR2	Liquid Pepsin (RTU)	Wash buffer 1 (10x)	Wash buffer 2 (10x)	Reagent A	Fixing solution
eFISHHisto	DF500-20XE	20 test	5 ml	7 ml (Histo)	200 ml	NA	12 ml	3 ml
eFISHCyto	DF510-20XE	20 test	NA	7 ml (Cyto)	200 ml	200 ml	NA	20 ml

Product	Cat. No.	Size	Description
NAR1	HK873-5K	250 ml	Microwave based nucleic acid retrieval for manual use only

eFISH Processing Systems

True eFISHiency

Now FISH can be the nexus of a more efficient and more productive laboratory. With a family of Xmatrix® systems, you have the freedom to attend to more demanding tasks while delivering high-quality and standardized results every time.



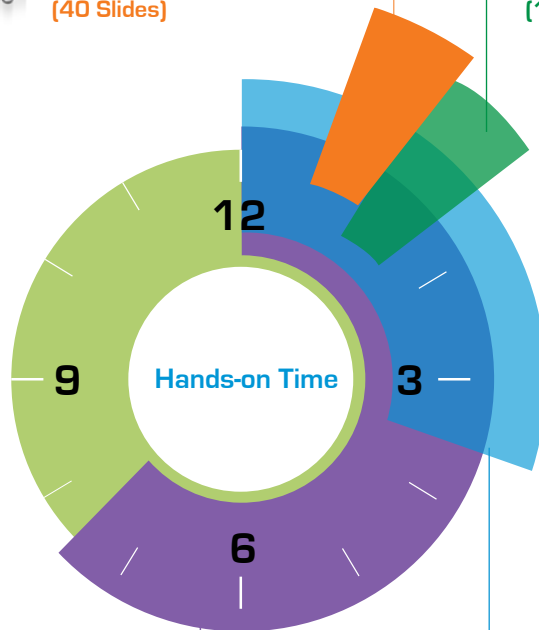
Xmatrix® ELITE
3 Steps

30 Minutes
(40 Slides)



Xmatrix® NANO
4 Steps

< 30 Minutes
(10 Slides)



33 Steps

7.5 Hours
(10 Slides)

3.5 Hours
(10 Slides)



Xmatrix® MINI
33 Steps



Rethink the way FISH fits into your workflow

Xmatrix[®]ELITE

Microtome to Microscope

- The world's first and only fully automated front-end FISH processing system
- Run up to 40 slides under multiple protocols
- Reduce hands-on tech time from 7.5 hours to 30 minutes

33 Steps Reduced to 3



Xmatrix[®]NANOVIP

eFISHiency System for FISH Automation

- On-board dewaxing, oil seal and final coverslip after DAPI
- Add micro-reagents manually to save cost
- Run 10 different protocols at the same time

33 Steps Reduced to 4



Xmatrix[®]MINI

eFISHiency Workstation

- eFISHiency Workstation for manual FISH assay
- Hybridizer with eACT™ temperatures
- 10 Independently programmable thermal cyclers
- Built-in touch screen display
- Manual coverslip application and removal

Accessories



Oil stamp



Coverslip stand



Suction pen





Family of Xmatrx® Systems to Provide Optimum Workflow Solutions for Your Laboratory Needs

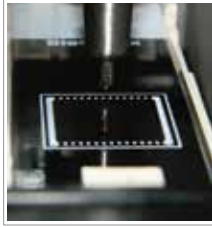
With superior staining quality and enhanced laboratory productivity in mind, we have developed a family of Xmatrx® Systems to produce standardized results and provide optimum workflow solutions for your laboratory needs by:

- Streamlining lab workflow
- Increasing throughput
- Improving reproducibility
- Freeing up critical resources

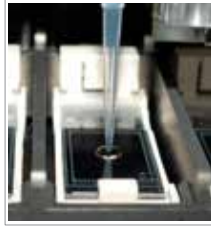
Xmatrx® ELITE



Placement of slides on eXACT™ temperature controlled blocks



Automated application of oil for sealing reaction chamber (micro-chamber)



Automated dispensing of micro-reagents (proteinase, probe and DAPI)



Automated application and removal of coverslips



Automated wash and airflow to dry slides

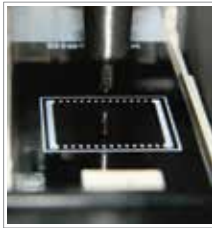


Automated mounting and final coverslip after DAPI

Xmatrx® NANO



Placement of slides on eXACT™ temperature controlled blocks



Automated application of oil for sealing reaction chamber (micro-chamber)



Manual dispensing of micro-reagents (proteinase, probe and DAPI)



Automated application and removal of coverslips



Automated wash and airflow to dry slides



Automated mounting and final coverslip after DAPI

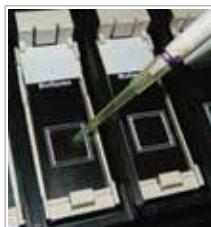
Xmatrx® MINI



Placement of slides on eXACT™ temperature controlled blocks



Manual application of oil with an oil stamp for sealing reaction chamber [micro-chamber]



Manual dispensing of micro-reagents (proteinase, probe and DAPI)



Manual application and removal of coverslips with a suction pen



Manual wash and dry with aid of heat



Manual mounting and coverslip after DAPI

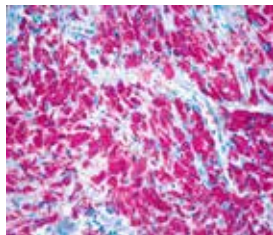


Special Stains





Acid Fast Bacteria (AFB) Blue Stain

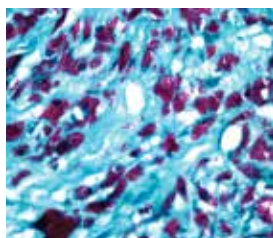


Lung tissue infected with *Mycobacterium tuberculosis*

Cat. No. (Xmatrix):	SS025-50X
Specificity:	<i>Mycobacterium tuberculosis</i>
Expected Results:	Red (Acid fast bacilli) and Blue (non-acid fast bacteria)

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System. The Acid Fast Stain is for demonstration of mycobacteria, especially *Mycobacterium tuberculosis*, in tissue sections and smears. Mycobacteria are difficult to demonstrate by other staining techniques due to the fatty acid capsule surrounding the organism. This fatty acid covering influences the degree to which stains may penetrate and subsequently be removed. Acid Fast staining may be used for the demonstration of mycobacteria including *M. tuberculosis*, *M. kansasii*, *M. avium*, and *M. leprae*. Tuberculosis (TB) remains a major health threat, especially in developing countries.

Acid Fast Bacteria (AFB) Green Stain

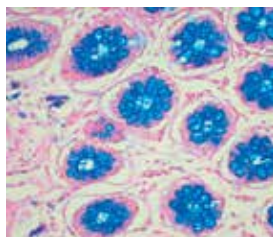


Lung tissue infected with *Mycobacterium tuberculosis*

Cat. No. (Xmatrix):	SS059-50X
specificity:	Mycobacterium spp
Expected Results:	Acid fast bacilli stains red while the background stains green

Mycobacteria are difficult to demonstrate by other staining techniques due to the fatty acid capsule surrounding the organism. This fatty acid covering influences the degree to which stains may penetrate and subsequently be removed. Acid Fast staining may be used for the demonstration of mycobacteria including *M. tuberculosis*, *M. kansasii*, *M. avium*, and *M. leprae*. Tuberculosis (TB) remains a major health threat, especially in developing countries. A major cause of death in AIDS patients in Africa is TB. *M. kansasii* and *M. avium* are also frequently responsible for opportunistic infections in these AIDS patients. Acid Fast remains one of the most common stains used.

Alcian Blue/PAS Stain (i6000/manual)

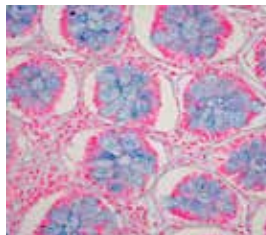


Alcian Blue staining of colon tissue

Cat. No. (Xmatrix):	SS026-50X
Cat. No. (i6000/manual):	SS020
Specificity:	Neutral and acidic mucosubstances
Expected Results:	Acid mucins stain blue, neutral mucins stain magenta, mixtures of mucins stain blue/purple; nuclei stain deep blue

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Alcian Blue PAS is a combined method utilizing the properties of both the PAS and Alcian Blue methods to demonstrate the full complement of tissue proteoglycans. Alcian Blue offers comprehensive staining for acid mucins at pH 2.5. The staining results are insoluble in water or alcohol and do not fade appreciably over time. Neutral mucins which are solely PAS positive will subsequently be demonstrated in a contrasting manner. Where mixtures occur, the resultant colour will depend upon the dominant moiety.

Alcian Blue pH 2.5 Stain

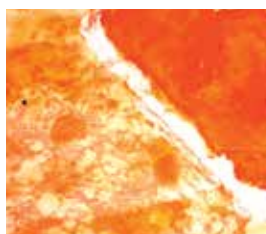


Alcian blue staining of colon tissue

Cat. No. (Xmatrix):	SS027-50X
Cat. No. (i6000/manual):	SS012
Specificity:	Acid mucins and mucopolysaccharides
Expected Results:	Acid mucopolysaccharides stain blue; nuclei stain pink to red; cytoplasm stains pale pink

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Alcian Blue offers comprehensive staining for acid mucins and stains very intensely over a varying pH range. Strongly sulphated mucins stain below pH 1.0, weakly sulfated mucins stain at pH 2.5 and above, while sialomucins (depending on their type) stain between pH 1.5 and 3.2. Alcian Blue is a water soluble, high molecular weight, copper phthalocyanin basic dye. This Alcian Blue kit stains mucins at pH 2.5. The staining results are insoluble in water or alcohol and do not fade appreciably over time.

Alizarin Red Stain

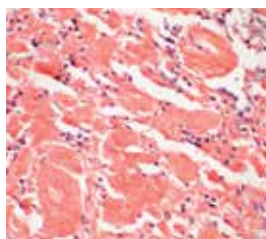


Calcium deposits in bone tissue

Cat. No. (Manual):	SS052-50K
Specificity:	Calcium in tissue section
Expected Results:	Calcium deposits stain orange-red

This product is intended for *in vitro* diagnostic use and is used to identify calcium in tissue sections. Calcium forms an Alizarin Red S-calcium complex in a chelation process and the reaction is birefringent. The reaction is not strictly specific for calcium, since magnesium, manganese, barium, strontium, and iron may interfere, but these elements usually do not occur in sufficient concentration to interfere with the staining.

Amyloid (Congo Red) Stain



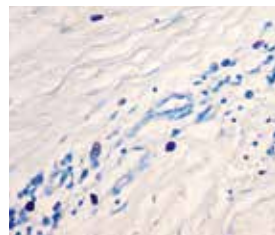
Amyloid staining of liver tissue

Cat. No. (Xmatrix):	SS028-50X
Cat. No. (i6000/manual):	SS003
Specificity:	Amyloid in tissue sections
Expected Results:	Amyloid stains red to deep pink; nuclei stain blue; elastic fibers stain light pink

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Amyloids are insoluble fibrous protein aggregates that erroneously interact with one another or other cell components forming insoluble fibrils. Abnormal accumulation of amyloid fibrils in organs may lead to amyloidosis and play a role in various neurodegenerative disorders. Amyloid deposits are extracellular and may become sufficiently large to cause damage to surrounding tissues. Congo Red is the gold standard method for diagnosis of amyloidosis. When stained with Congo Red and viewed through polarizing lenses amyloid will birefringe an apple green color under the microscope.



Azure A Stain

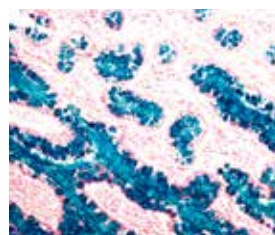


Azure A staining of mast cells in skin tissue

Cat. No. (Xmatrix): SS038-50X
 Cat. No. (i6000/manual): SS038
 Specificity: Mast cells in skin tissue (neurofibroma)
 Expected Results: Mast cell granules stain purple; Nuclei stain blue; Background stains pale blue

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Mast cells are normally present in small numbers in the connective tissue of all organs, but particularly in the dermal layer of skin and are identified by their cytoplasmic granules. Increased numbers of mast cells are found in many pathological conditions. Mast cell hyperplasia in the skin (mastocytosis) manifests with skin lesions and may present with symptoms of urticaria and flushing due to the chemical mediators released during mast cell degranulation.

Colloidal Iron Stain

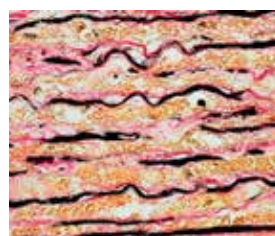


Colloidal Iron staining of adenocarcinoma of intestine

Cat. No. (Xmatrix): SS054-50X
 Cat. No. (i6000/manual): SS054
 Specificity: Carboxylated and sulfated mucopolysaccharides and glycoproteins
 Expected Results: Acid mucopolysaccharide and sialomucins appear deep blue, nuclei appear pink-red and cytoplasm appears pink

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated System and also for i6000 staining. The Colloidal Iron Stain Kit is used for the demonstration of carboxylated and sulfated mucopolysaccharides and glycoproteins and is suitable for any well-fixed paraffin embedded tissue cut at 5 microns. Colloidal ferric ions are, at low pH, absorbed principally by carboxylated and sulfated mucosubstances.

Elastic Stain

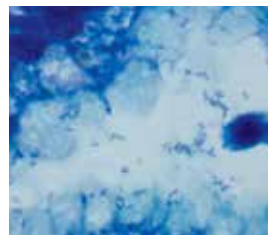


Elastic fibers in aorta tissue

Cat. No. (Xmatrix): SS029-50X
 Specificity: Staining of elastin in tissue sections
 Expected Results: Elastic fibers (shades of dark blue); Collagen fibers (shades of red); Nuclei (shades of blue to black); Other tissue elements (shades of yellow)

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System. The elastic staining procedure can demonstrate the characteristics of emphysema (i.e., atrophy of elastic tissue), arteriosclerosis (i.e., thinning and loss of elastic fibers) and various other vascular diseases.

Giemsa Stain

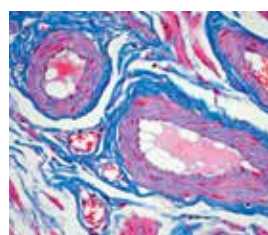


Giemsa stain for H.pylori in tissue sections

Cat. No. (Xmatrix): SS049-50X
 Cat. No. (i6000/manual): SS016
 Specificity: *Helicobacter pylori*
 Expected Results: Helicobacter pylori and nuclei stain dark blue, and cytoplasm stains pink

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. It is recognized that *Helicobacter pylori* is the cause of most stomach and duodenal ulcers. Approximately 95% of persons with gastric ulcers and 100% of persons with chronic gastritis have this bacterium within the stomach. The organism has not been found in healthy persons. Those without stomach ulcers or gastritis. *H. pylori* are known to bind to the O blood-group structure (a particular series of sugars) present in gastric epithelial cells.

Gomori's Trichrome Blue Stain

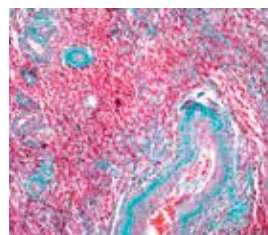


Gomori's Trichrome staining of Fallopian tube

Cat. No. (Xmatrix): SS033-50X
 Cat. No. (i6000/manual): SS033
 Specificity: Muscle and collagen fibers
 Expected Results: Muscle fibers stain red; Collagen stains blue; Nuclei stain blue-black

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Trichrome stains have historically been used to distinguish collagen from muscle tissue. The term "trichrome" refers to a mix of three stains. These dyes stain nucleus, collagen and cytoplasm structures and are often in mordants such as phosphotungstic or phosphomolybdic acid. Use of trichrome stain may be useful in the study of diseases of connective tissue and muscle characterized by fibrotic and dystrophic changes and to differentiate between collagen and smooth muscle in tumors.

Gomori's Trichrome Green Stain



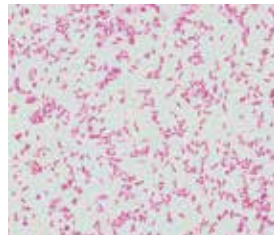
Gomori's Trichrome staining of Fallopian tube

Cat. No. (Xmatrix): SS034-50X
 Cat. No. (i6000/manual): SS034
 Specificity: Muscle and collagen fibers
 Expected Results: Nuclei (blue), Collagen (green), Muscle Fiber (red)

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Trichrome stains have historically been used to distinguish collagen from muscle tissue. The term "trichrome" refers to a mix of three stains. These dyes stain nucleus, collagen and cytoplasm structures and are often in mordants such as phosphotungstic or phosphomolybdic acid. Use of trichrome stain may be useful in the study of diseases of connective tissue and muscle characterized by fibrotic and dystrophic changes and to differentiate between collagen and smooth muscle in tumors.



Gram Stain

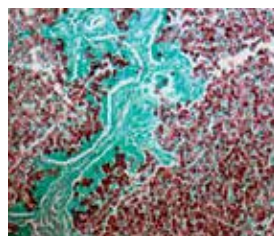


Cat. No. (Xmatrix): SS037-50X
 Cat. No. (i6000/manual): SS015
 Specificity: Gram positive and Gram negative microorganisms
 Expected Results: Gram positive- (blue), Gram-negative (pink to red)

Gram staining of gram-negative bacilli

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. The Gram Stain procedure continues to be one of the initial screening tests for detecting bacteria in wounds, sputum, pus, tissues, etc. Although the exact chemical nature of the method is yet to be established, it is known that Gram positive organisms, staining a deep blue color, have a cell wall containing teichoic acid, while Gram negative organisms, staining a red-pink color, have cell walls containing lipopolysaccharides.

Grocott's Methenamine Silver (GMS) for Fungi Stain

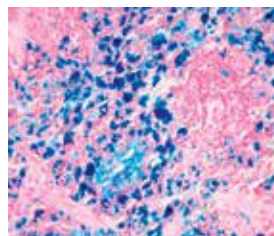


Cat. No. (Xmatrix): SS042-50X
 Cat. No. (i6000/manual): SS017
 Specificity: Fungi in tissue sections
 Expected Results: Fungi stain gray to black with a light green background

GMS staining for fungi in tissue sections

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Human bodies are regularly exposed to fungi spores from many species. Patients with a diminished or compromised immune system show greater susceptibility and incidence of fungal infections. Some fungi may elicit a range of host reactions from oxidative, necrotising to granulomatous. Other fungi produce little cellular response to indicate their presence. Most fungi are relatively large and their cell walls are rich in polysaccharide. These polysaccharides can be oxidized to dialdehydes and detected with Schiff's reagent or silver solution.

Iron Stain

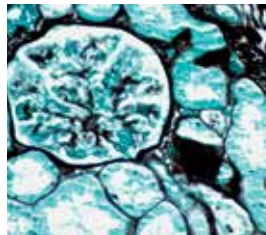


Cat. No. (Xmatrix): SS030-50X
 Cat. No. (i6000/manual): SS010
 Specificity: Detection of ferric iron in tissue sections, and blood or bone marrow films
 Expected Results: Iron (bright blue); Nuclei (red); Cytoplasm (pink)

Spleen tissue with iron deposits

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Small amounts of ferric iron may be found in bone marrow and spleen. Very large deposits may be seen in conditions such as hemochromatosis and hemosiderosis.

Jones' Basement Membrane Stain

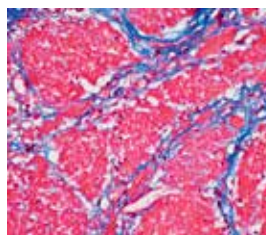


Cat. No. (Xmatrix): SS058-50X
 Specificity: Basement membrane
 Expected Results: Basement membrane (black); Nuclei (red); Background (pink)

Jones' basement membrane staining of kidney with glomeruli

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Hematoxylin and Eosin stained sections of most tissue do not distinguish between basement membranes well. In disorders such as membranous nephropathy or diabetes the basement membranes in the glomerulus become more conspicuous. Jones' Basement Membrane stain kit is used to identify basement membranes, specifically glomerular and tubular membranes in renal tissue.

Masson's Trichrome Stain

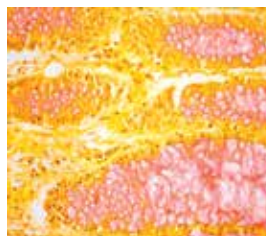


Cat. No. (Xmatrix): SS035-50X
 Cat. No. (i6000/manual): SS008
 Specificity: Muscle and collagen fibers
 Expected Results: Collagen (blue); Nuclei (black); Muscle, cytoplasm, keratin (red)

Masson's Trichrome staining of stomach tissue

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Trichrome stains have historically been used to distinguish collagen from muscle tissue. The term "trichrome" refers to a mix of three stains. These dyes often stain nucleus, collagen and cytoplasm structures in mordants such as phosphotungstic or phosphomolybdic acid. Use of Masson's trichrome stain may be useful in the study of diseases of connective tissue and muscle characterized by fibrotic and dystrophic changes and to differentiate between collagen and smooth muscle in tumors.

Mucicarmine Stain



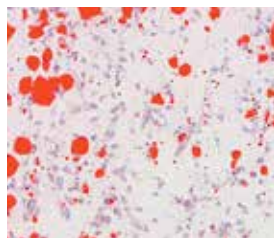
Cat. No. (Xmatrix): SS036-50X
 Cat. No. (i6000/manual): SS006
 Specificity: Mucopolysaccharides
 Expected Results: Mucins (deep rose); Nuclei (black); Other tissue elements (yellow)

Mucicarmine staining of small intestine

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Mucicarmine preferentially stains mucin with strong staining of epithelial mucins and poor staining of mucins of fibroblastic origin. Staining results may be used to identify primary tumor sites, distinguishing mucin-negative undifferentiated squamous cell lesions from mucin-positive adenocarcinomas and staining capsule of Cryptococcus.



Oil Red O Stain

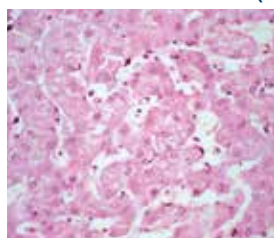


Oil Red O staining of fat containing tissue

Cat. No. (Xmatrix): SS043-50X
 Cat. No. (i6000/manual): SS021
 Specificity: Fat staining on frozen sections
 Expected Results: Fat (red); Nuclei (blue)

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Oil Red O stain is an oil soluble dye used to evaluate normal or abnormal fatty tissue. Abnormal deposits of fatty emboli may develop after a bone fracture or an injury that crushes fatty tissue.

Periodic Acid-Schiff (PAS) Diastase Stain



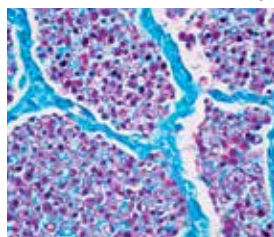
PAS Diastase staining of liver tissue

Cat. No. (Xmatrix): SS039-50X
 Cat. No. (i6000/manual): SS001
 Specificity: PAS stains specifically glycogen, glycoproteins, mucopolysaccharides, basement membrane and mucin.

Expected Results: Nuclei stain blue; glycogen and other carbohydrates stain red to pink; No stained glycogen seen in diastase-digested tissue

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. PAS is a stain that typically gives a magenta color in the presence of glycogen. Diastase is an enzyme that breaks down glycogen into smaller sugar units, maltose and glucose that are washed out of the section. Differences in the intensities of the two stains (PAS and PAS-D) can be attributed to different glycogen concentrations and can be used to semi-quantify glycogen in samples.

Periodic Acid-Schiff (PAS) for Fungi Stain

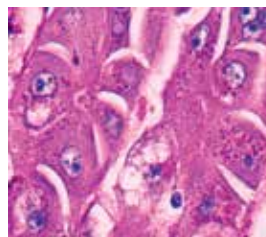


PAS staining of fungi in lung tissue

Cat. No. (Xmatrix): SS053-50X
 Cat. No. (i6000/manual): SS022
 Specificity: PAS for Fungi is specific for fungal organisms in tissue sections
 Expected Results: Fungi stain rose and background stains green to blue

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. PAS for fungi is a staining method used to identify fungi in formalin-fixed and paraffin-embedded tissues or autopsy tissues. Polysaccharides present in fungal cell walls are oxidized by the periodic acid to aldehydes. The aldehydes react with the Schiff reagent to yield rose-colored staining of fungi.

Periodic Acid-Schiff (PAS) Stain (without Diastase)

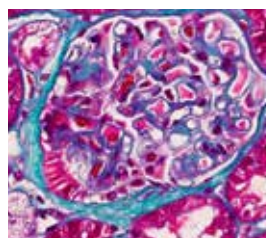


PAS staining of liver tissue

Cat. No. (Xmatrix): SS032-50X
 Cat. No. (i6000/manual): SS002
 Specificity: Glycogen glycoproteins; Mucopolysaccharides; Basement membrane and mucin
 Expected Results: Glycogen (red-purple); Background (blue)

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. The PAS reaction in tissue sections is useful for outlining tissue structures such as basement membranes, capsules and blood vessels. This staining procedure may also be used for the demonstration of fungal organisms in tissue sections. PAS staining is mainly used for staining structures containing a high proportion of carbohydrate macromolecules (glycogen, glycoprotein, proteoglycans) typically found in connective tissues, mucus, the glycocalyx, and basal laminae.

Renal Masson's Trichrome Stain

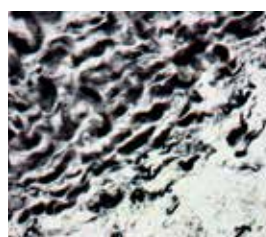


Renal Masson's Trichrome staining of kidney

Cat. No. (Xmatrix): SS050-50X
 Cat. No. (i6000/manual): SS050
 Specificity: Collagen
 Expected Results: Fibrinoid and immune deposits appear red; Basement membrane & collagen stain green and nuclei stain blue

Trichrome stains have historically been used to distinguish collagen from muscle tissue. The term "trichrome" refers to a mix of three stains. These dyes often stain nucleus, collagen and cytoplasm structures in mordants such as phosphotungstic or phosphomolybdic acid.

Reticulin/No Counterstain



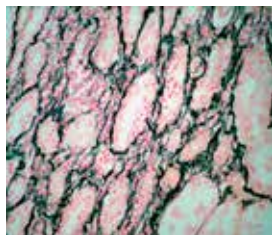
Reticulin staining of liver tissue

Cat. No. (Xmatrix): SS046-50X
 Cat. No. (i6000/manual): SS046
 Specificity: Reticular fibers
 Expected Results: Reticulin stains black without any counter stain

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Ammonical silver stains are common methods for the demonstration of reticular fibers. These procedures may be used for the differential diagnosis of tumors such as carcinomas, sarcomas and lymphosarcomas.



Reticulin/Nuclear Fast Red Stain

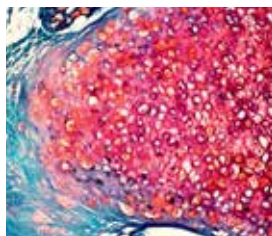


Cat. No. (Xmatrix): SS047-50X
 Cat. No. (i6000/manual): SS011
 Specificity: Reticular fibers
 Expected Results: Reticulin stains black with a pink to rose background

Reticulin staining of kidney tissue

Ammonical silver stains are common methods for demonstration of reticular fibers. These procedures may be used for the differential diagnosis of tumors such as carcinomas, sarcomas and lymphosarcomas.

Safranin O Stain



Cat. No. (Xmatrix): SS040-50X
 Cat. No. (i6000/manual): SS040
 Specificity: Cartilage, mucin, and mast cell granules
 Expected Results: Nuclei stain black, cytoplasm stains gray-green, cartilage, mucin & mast cell granules stain orange to red

Safranin O staining of cartilage

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Safranin O staining is used for the detection of cartilage, mucin, and mast cell granules on formalin-fixed paraffin-embedded and frozen tissue sections. In this staining, cartilage and mucin stain orange to red, nuclei stain black and the background is stained gray green. Safranin O is used to demonstrate any changes that occur in articular diseases.

Sudan Black B Stain

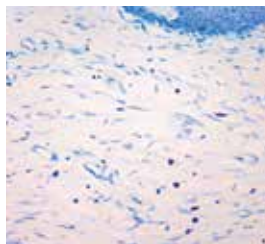


Cat. No. (Xmatrix): SS041-50X
 Cat. No. (i6000/manual): SS019
 Specificity: Sudan Black B staining procedure is used to demonstrate neutral lipids and phospholipids in frozen tissue sections
 Expected Results: Fat stains blue-black and nuclei stain red

Fat in frozen sections stained by Sudan black B

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Sudan Black B is a classical dye used for studying lipids in tissue sections. Sudan black B stain is used to differentiate fat cell tumors (liposarcomas) from other types of tumors. Abnormal deposits of fatty emboli may develop after a bone fracture or an injury that crushes fatty tissue. The fat stain may verify that an emboli caused death. When cell membranes or myelin degenerate, fatty substances may be formed and can be detected with this stain.

Toluidine Blue Stain

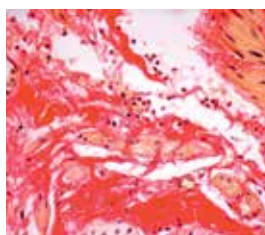


Cat. No. (Xmatrix): SS057-50X
 Cat. No. (i6000/manual): SS057
 Specificity: Mast cell
 Expected Results: Mast cell granules and carboxylated mucins (purple); Nuclei (blue); Background (pale blue)

Toluidine blue staining of mast cells in skin tissue

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System. Mast cells normally present in the connective tissue of all organs are increased in many pathological conditions. Mast cell granules which are refractile and not readily identified in H&E stained sections are well demonstrated by the Toluidine blue staining method.

Van Gieson Stain



Cat. No. (Xmatrix): SS044-50X
 Cat. No. (i6000/manual): SS044
 Specificity: Collagen and smooth muscle in tumors
 Expected Results: Nuclei (blue/black); Collagen (red); Cytoplasm, muscle fibrin and red blood cells (yellow)

Van Gieson staining of stomach tissue

This product is intended for *in vitro* diagnostic use on the BioGenex Xmatrix Automated Staining System and also for i6000 staining. Van Gieson Stain is used to differentiate between collagen and smooth muscle in tumors and to demonstrate the increase of collagen in diseases. This method combines two or more anionic dyes and relies on differential binding by tissue components. The differentiation is determined by a combination of differences in the relative size of the dye molecules, differences in the physical structure of the tissue, and differences in the amino acid composition of tissue elements.

Von Kossa Stain



Cat. No. (Manual): SS045-50K
 Specificity: Calcium salts in tissue sections
 Expected Results: Calcium salts (black or brown black); Nuclei (red) & cytoplasm (pink)

Von Kossa staining of calcified node

This product is intended for *in vitro* diagnostic use to demonstrate deposits of calcium in tissues. Abnormal deposits of calcium may be found in any area of the body. With the H&E stain, calcium appear deep blue-purple. Von Kossa staining is specific for demonstrating deposits of calcium or calcium salt and is not specific for the calcium ion itself. When tissue sections are treated with a silver nitrate solution, the silver is deposited by replacing the calcium, reduced by the strong light, and thereby visualized as metallic silver. Additional methods are sometimes employed along with this technique to confirm the presence of calcium such as Alizarin Red, which detects calcium deposits.



Special Stains (Xmatrix®, i6000™ and Manual Use)

Product Name	50 Tests - i6000/manual	50 Tests - Xmatrix
Acid-Fast Bacteria (AFB) Blue Stain	N/A	SS025-50X
Acid-Fast Bacteria (AFB) Green Stain	N/A	SS059-50X
Alcian Blue/PAS Stain	SS020	SS026-50X
Alcian Blue pH 2.5 Stain	SS012	SS027-50X
Alizarin Red Stain (manual use only)	SS052-50K	N/A
Amyloid (Congo Red) Stain	SS003	SS028-50X
Azure A Stain	SS038	SS038-50X
Colloidal Iron Stain	SS054	SS054-50X
Elastic Stain	N/A	SS029-50X
Giemsa Stain	SS016	SS049-50X
Gomori's Trichrome Blue Stain	SS033	SS033-50X
Gomori's Trichrome Green Stain	SS034	SS034-50X
Gram Stain	SS015	SS037-50X
Grocott's Methenamine Silver (GMS) Stain	SS017	SS042-50X
Iron Stain	SS010	SS030-50X
Jones' Basement Membrane Stain	N/A	SS058-50X
Masson's Trichrome Stain	SS008	SS035-50X
Mucicarmine Stain	SS006	SS036-50X
Oil Red O Stain	SS021	SS043-50X
Periodic Acid-Schiff (PAS) Diastase Stain	SS001	SS039-50X
Periodic Acid-Schiff (PAS) for Fungi Stain	SS022	SS053-50X
Periodic Acid-Schiff (PAS) Stain (without Diastase)	SS002	SS032-50X
Renal Masson's Trichrome Stain	SS050	SS050-50X
Reticulin/No Counterstain	SS046	SS046-50X
Reticulin/Nuclear Fast Red Stain	SS011	SS047-50X
Safranin O Stain	SS040	SS040-50X
Sudan Black B Stain	SS019	SS041-50X
Toluidine Blue Stain	SS057	SS057-50X
Van Gieson Stain	SS044	SS044-50X
von Kossa Stain (manual use only)	SS045-50K	N/A

IVD Products: Unless specified otherwise, all Special Stains listed in this section are for In Vitro Diagnostics Use.





Consumables & Ancillary Reagents





Buffers and Diluents

Buffers and diluents are available for Immunohistochemistry, *in situ* Hybridization, Special Stains and most other applications.

- General buffers, such as PBS(PH 7.6) and TBS(PH 7.6, 0.1M) can be used for washing/rinsing of slides.
- Super Sensitive™ Wash Buffer is phosphate buffered saline (PH 7.4) with surfactant and is used to ensure optimal staining with even spreading of antibodies and other reagents to avoid inconsistent results.
- Common Antibody Diluent and Enhanced Antibody Diluent have been developed for use with all antibodies in immunohistochemistry and have been specifically optimized for use with BioGenex antibodies and reagent products. These diluents enable enhancement of signal-to-noise ratio of staining when used optimally and also help in maintaining the antibody specificity and stability. The Enhanced Antibody Diluent, in addition to all the above features, contains chemical compounds to enhance antigen-antibody interaction and affinity. In order to achieve desired staining pattern and intensity, the titers of antibodies or concentrations of reagents may need to be optimized. These diluents are also for diluting concentrated Alkaline Phosphatase (AP) labels but are not suitable for diluting Horseradish Peroxidase (HRP) labels because they contain Sodium Azide.
- Streptavidin Peroxidase Diluent was developed especially for diluting concentrated HRP labels and does not contain Sodium Azide.
- Link Diluent was developed for diluting concentrated Link (Biotinylated Anti-Immunoglobulins) antibodies

Buffers - Manual & Automation

Product Name	500 ml ^(20x)
Phosphate Buffered saline	HK091-9K
Super Sensitive Wash Buffer	HK583-5K
X-Wash Buffer, 20X for Xmatrix®	HX020-YIK
Tris Buffer	HK098-9K
Tris Buffer (Wash Buffer) 3/Pack (dries powder to make 3L)	HK098-5K

Diluents- Manual

Product Name	100 ml ^(RTU)
Common Antibody Diluent	HK156-5K
Enhanced Antibody Diluent	HK941-YAK
Link Diluent	HK165-5K
Streptavidin Peroxidase Diluent	HK157-5K



Blocking Reagents

- **Peroxide Block:** Endogenous peroxidase is most commonly encountered in red blood cells, kidney, and liver tissue. Peroxide Block should be used prior to application of primary antibody when Horseradish Peroxidase (HRP) is used as the labeling enzyme, and if it is necessary to block endogenous peroxidase activity in the tissue being stained.
- **Power Block™:** This is a blocking reagent for reducing nonspecific background in immunoassays. A truly universal block, it is suitable for use in immunohistochemistry, immunocytochemistry, ELISA methods, and immunogold techniques. The Power Block™ reagent contains buffer, casein and preservative and also works well as an antibody diluent and washing medium.
- **Protein Block:** This can be used to reduce background staining due to non-specific binding of the primary or secondary antibodies to the tissue. Protein Block should be applied immediately prior to the primary antibody.
- **Avidin/Biotin Blocking Kit:** Certain tissues especially liver, kidney, and GI tract are rich in biotin. Use of the Avidin/Biotin Blocking kits ensures the blocking of all endogenous biotin, biotin receptors, or avidin binding sites present in the tissue. Pre-treatment of tissues with avidin blocking should always be followed with biotin blocking.

Blocking Reagents-Manual/Open System*

Product Name	6 ml ^(RTU)	50 ml ^(RTU)	100 ml ^(10X)
Peroxide Block	HK111-5K	HK111-50K	NA
Protein Block (Normal Goat Serum)	HK112-5K	HK112-9K	NA
Protein Block (Normal Rabbit Serum)	HK114-5K	NA	NA
Power Block	HK083-5K	HK083-50K	HK085-5K
Avidin/Biotin Blocking Kit	HK102-5KE	NA	NA

* Reagent vials for Xmatrx& i6000 open systems need to be purchased separately.



Substrates and Chromogens

BioGenex offers complete Substrate Packs for immunohistochemical staining with alkaline phosphatase and peroxidase labels. The kits are designed to reduce substrate preparation time and minimize exposure to chemical hazards. The chart below summarizes the substrates offered, indicating enzyme and standard mounting media compatibility.

Features & Benefits

- High Resolution AEC and Liquid DAB
- Rapid Development Time
- Ready-to-Use Solutions
- Long-Term Stability

IHC - Substrates and Chromogens Packs – Manual & Open System**

Product Name	60 Tests*	250 Tests*	500 Tests*
Fast Red	NA	NA	HK182-5KE
Elegance Red	NA	NA	HK144-5KE
New Fuchsin (400 slides)	NA	NA	HK183-5KE
Two Component DAB (BUFFER+CHROMOGEN) (1000 slides)	NA	NA	HK542-XAKE
AEC (BUFFER+CHROMOGEN)	NA	HK092-5KE	NA
AEC One Step Sol.	HK139-06K	NA	HK139-50K

* 100 µl/test of prepared reagent

** Reagent vials for Xmatrx& i6000 open systems need to be purchased separately

The chart below summarizes the compatibility of mounting medium, chromogens and counterstains.

Chromogen	Stain Color	Enzyme used	Solubility in Alcohol/Xylene	Compatible with Hematoxylin	Compatible Mounting Media
AEC	Brick Red	HRP	Yes	Yes	Aqueous or Super Mount
DAB	Brown	HRP	No	Yes	Aqueous, Super Mount or Xmount
Elegance Red	Red	AP	No	Yes	Aqueous, Super Mount or Xmount
Fast Red	Red	AP	Yes	Yes	Aqueous or Super Mount
New Fuchsin	Red	AP	Yes	Yes	Aqueous or Super Mount



Counterstains and Mounting Media

BioGenex offers the following counterstains for use in Immunohistochemistry, *in situ* Hybridization and other applications with either manual or automated staining systems.

- Mayer's hematoxylin is a blue stain that does not contain alcohol and therefore is compatible with both alcohol soluble non-permanent chromogens (AEC, Fast Red & New Fuchsin) and alcohol-insoluble chromogens (DAB & Elegance Red). It is alcohol and xylene insoluble and therefore compatible with most clearing agents and mounting media.
- DAPI (4',6-diamidino-2-phenylindole) is a fluorescent blue stain used as nuclear counterstain in Fluorescent In Situ Hybridization (FISH) and Immunofluorescence (IF) applications. DAPI strongly binds A-T rich regions in DNA and can be used to stain nuclei of both live and fixed cells. DAPI has an absorption maximum at a wavelength of 358 nm and its emission maximum is at 461 nm.

Product Name	1 ml ^(RTU)	6 ml ^(RTU)	250 ml ^(RTU)
Hematoxylin, Mayer's (IHC, ISH)	NA	HK100-5K	HK100-9K
DAPI in Mounting Medium (FISH,IF)	HK606-10K	NA	NA

Mounting of all stained biological specimens is an essential step before their microscopic evaluation. Mounting also enables the slides to be archived for long periods of time. The mounting medium may be used to attach a coverslip or may itself serve as a coverslip substitute. The choice of mounting medium depends on whether long-term or short-term preservation is desired, and whether the mounting procedure is chemically compatible with the chromogen and the counterstain.

- SuperMount® Permanent Mounting Medium is a polymer based aqueous mounting media that does not require the use of a coverslip. This innovative, patented mounting medium (BioGenex's U.S. Patent No. 5,492,837) is designed to preserve biological specimens for long-term storage. SuperMount® medium is compatible with most aqueous and organic-soluble dyes and chromogens including AEC, DAB, Elegance Red, Fast Red, New Fuchsin, BCIP/NBT, Rhodamine, Fluorescein, Texas Red, Phycoerythrin, Phycocyanin, and Fat Stain (Oil Red O). The refractive index of SuperMount® yields greater transparency and clarity of specimens to be examined under the microscope. SuperMount® can be used for the mounting of all biological specimens, including stained tissue sections, Cytospin preparations, and blood smears.
- Aqueous Mounting Medium is a glycerol-based mounting medium that require the use of a coverslip. It is intended for short-term specimen storage and is compatible with most chromogens and counterstains.
- XMount™ Mounting Medium is a permanent mounting medium that has been optimized for use with BioGenex™ instrument for all BioGenex detection systems for immunohistochemistry (IHC), In Situ Hybridization (ISH) and special stains. XMount™ is intended for use with alcohol and xylene insoluble chromogens, such as DAB (for peroxidase systems) and Elegance Red (for alkaline phosphatase systems). XMount™ dries clear with an ideal refractive index similar to high quality glass and tissue elements. Mounted slides can be viewed with high magnification oil immersion lenses. Also, when mounting preparations stained with the BCIP/NBT substrate, crystal formation that may occur when using other media is minimized.

Mounting Medium

Product Name	15 ml ^(RTU)	50 ml ^(RTU)
Aqueous Mounting Medium - Manual	HK099-5K	NA
SuperMount Permanent Mounting Medium - Manual	HK079-5K	HK079-7K
Xmount Mounting Media (200 tests) – Barcode labeled	HX035-YCD	NA
Xmount Mounting Media (200 tests) – Xmatrix Infinity	HX035-10X	NA



Negative Control Sera/Immunoglobulins

Each staining run should include a negative control slide to confirm reagent specificity. BioGenex, for this purpose, offers negative control sera/immunoglobulins which have been optimized for use as negative controls for our Super Sensitive™, ready-to-use antibodies. Negative controls are available for Mouse, Rabbit, Goat and Rat antibodies.




Negative Control Sera/Immunoglobulins

Product Name	3 ml	17 ml
Goat	HK406-5G	NA
Mouse	HK119-5M	HK119-7M
Rabbit	HK408-5R	HK408-7R
Rat	HK407-5T	NA




Reagent Vials & Accessories

1. i6000 Elite & Xmatrix Infinity

The OptiMiser reagent vials (U.S. & Foreign Equivalent Patents Pending) are available as a 20 ml disposable pack for use on the i6000™ or Xmatrix Infinity staining systems. Vials are designed to minimize dead volume: <0.5 ml for 20 ml vials and 0.05 ml for 2 ml vials. Barcode labeled vials for use with antibodies from any supplier (user defined) are also available (XT026-601 to XT026-899 & XT026-601P to XT026-750P).

Cat. No.	Description	Figure
XT026-V24	Small White vials (20 ml) (24 per pack)	
XT101-24X	Brown vial without Neck/lid as holder for 2 ml insert (24 per pack)	
XT126-24V	Brown vial without Neck/lid as holder for 2 ml insert (24 per pack)	



Cat. No.	Description	Figure
XT149-V24	Vial Insert – 2 ml (24 per pack)	
XT027-H24	Vial holders (24 per pack)	
<ul style="list-style-type: none"> • 20 ml vials are provided with the vial holder ready to be placed in the reagent vial tray. • 2 ml vials need to be inserted in the vials without neck as shown here. 		

2. Xmatrx Elite

Reagents vials for Xmatrx® Elite Automated Staining Systems are barcode labeled 17 ml vials especially designed to ensure accurate identification, proper reagent inventory management and staining of up to 200 slides. These vial's dead volume is minimized to <0.5 ml. Barcode labeled vials for use with antibodies from any supplier (user defined) are also available (XT077-AX601 to XT077-AX0999).

ISH probes are supplied in 2 ml vials, inserted in barcode labeled vial holders thus minimizing dead volume to <0.05 ml. Barcode labeled vials for use with ISH probes from any supplier (user defined) are also available (XT079-PR0050 to XT079-PR0099).



Reagent Vials & Accessories for i6000 Elite Dx

Product	1 unit
Slide Barcode Labels (Monoclonal Abs) -100/Sheet	AM6010-AM6990
Slide Barcode Labels (Polyclonal Abs) -100/Sheet	AR6010-AR6300
User defined Empty barcode-labeled Vials (20 mL)	XT026-601 to XT026-899
User defined Empty barcode-labeled Vials for user polyclonal antibodies (20mL)	XT026-601P to XT026-750P

Reagent Vials & Accessories for Xmatrx Elite/Ultra

Product	1 unit
Slide Barcode Labels (Monoclonal Abs) -100/Sheet	AM6010-AM6990
Slide Barcode Labels (Polyclonal Abs) -100/Sheet	AR6010-AR6300
User defined Empty Barcode Labeled vials- ISH Probes	XT079-PR0050 to XT079-PR0099
User defined Empty Barcode Labeled vials- One step IHC	XT077-AX0801 to XT077-AX0999
User defined Empty Barcode Labeled vials- Two step IHC	XT077-AX0601 to XT077-AX0800



Microscope Slides & Coverslips

OptiPlus™ Positive-Charged Microscope Slides provide a strong adhesive surface for tissues and cells to prevent tissue displacement during harsh pre-treatments such as enzymatic digestion and the microwave Antigen Retrieval method. These slides are ideal for automated systems. Additionally, each slide has a frosted end for easy labeling. The OptiPlus™ Positive-Charged Barrier Slides have all the advantages of our regular OptiPlus™ slides, but also contain hydrophobic barriers that allow the quantity of reagents per slide to be tailored to the size of the specimen. These slides eliminate reagent waste without the need to use a PAP pen, thereby reducing set-up time in manual assays as well as in automated systems. The permanent hydrophobic barriers are compatible with dewaxing solutions and other reagents. The slides are suitable for use with frozen tissue sections, formalin-fixed paraffin sections, and cytology preparations.

1. i6000 Elite Automated Staining Systems

OptiPlus™ Barrier slides for i6000 come in three different configurations to accommodate different tissue sizes or multiple tissues per slide:

1. A single, full-size test area of 25 x 40 mm
2. A single 2/3-size test area of 25 x 30 mm
3. Three 1/3-size test areas per slide, each measuring 25 x 15 mm



2. Xmatrx Automated Staining Systems

OptiPlus™ Barrier Slides for Xmatrx (U.S. & Foreign Equivalent Patents Pending) contain double hydrophobic barriers that allow formation of an oil seal to prevent evaporation of microreagents during high temperature steps and prolonged incubations. Four different configurations are available:

1. A single test area of 25 x 40 mm (>80 µl of reagent recommended)
2. A single test area of 25 x 25 mm (>40 µl of reagent recommended)
3. A single test area of 18 x 18 mm (>10 µl of reagent recommended)
4. Two test area per slide, each measuring 18 x 18 mm

Coverslips are optimized for use on Xmatrx staining systems and come in three configurations to accommodate the different barrier slides.



Microscope Barrier Slides & Coverslips for Xmatrx

Product	1 Box	1 Case
Barrier Slides, 18 x 18 mm (70/box, 1400/case)	XT128-SL	XT128-CL
Barrier Slides, 18 x 18 mm, 2-Zone (70/box, 1400/case)	XT114-SL	XT114-CL
Barrier Slides, 25 x 25 mm (70/box, 1400/case)	XT108-SL	XT108-CL
Barrier Slides, 25 x 40 mm (70/box, 1400/case)	XT134-SL	XT134-CL
Coverslips, 18 x 18 mm (175/box, 1750/case)	XT121-YBX	XT121-XBK
Coverslips, 25 x 25 mm (90/box, 900/case)	XT122-90X	XT122-YQK
Coverslips, 25 x 40 mm (50/box, 500/case)	XT118-50X	XT118-YRK

Microscope Slides & Accesories for i6000 and Manual

Product	1 Box	1 Case
Barrier Slide, 3 x 1/3 Test Areas	XT014-SL	XT014-CL
Barrier Slides, 2/3 Test Area	XT013-SL	XT013-CL
Microscopic Slides	XT002-SL	XT002-CL
PAP Pen (For 500 to 1000 Slides, 5mm round tip) -1 unit	XT001-PP	N/A



Pipette tips

BioGenex pipette tips are made of high-quality polypropylene and are RNase and heavy metals-free when untampered. Inner surface is extremely smooth and requires minimum wetting. 1 ml pipette tips are optimized for use on BioGenex Xmatrx® and i6000™ Staining Systems, while 200 µl tips are optimized for Xmatrx® staining systems.

Pipette tips for i6000 & Xmatrx®

Product	1 Box	1 Case
Pipette Tips, 1 mL (192/box, 960/case)	XT105-01X	XT104-05X
Pipette Tips, 200 µL (960/box, 4800/case)	XT146-01X	XT145-05X

Consumables kits for Xmatrx®

Item	SKU	Size	Barrier Slides 25 x40 mm	Barrier Slides 25 x25 mm	Coverslips 25 x 40 mm	Coverslips 25 x 25 mm	1 ml Pipette Tips	200 µl Pipette Tips
IHC kit	XT148-YCDE	200 test	216	NA	1000	NA	384	960
ISH kit	XT144-YAD	100 test	NA	104	NA	900	384	960

Accessories

1. Antigen Retrieval Accessories Kits

The Antigen Retrieval Accessory Kit consists of slide holders and slide baths that make it convenient and compatible with any of the several Antigen Retrieval solutions. To accommodate microwave heating, the slide baths and slide holders are made of heat-stable thermoplastic polyolefin and hydrocarbon polymers of acetal resins. These accessories may be used in a microwave or a pressure cooker.

Item	SKU	Slide Bath + Lid	Slide Holder
24- Slide Accessory kit	MW001-SU	1	1 (24- slide capacity)
72- Slide Accessory kit	MW001-HB	3	3 (72- slide capacity)

2. NordicWare® Microwave Pressure Cooker

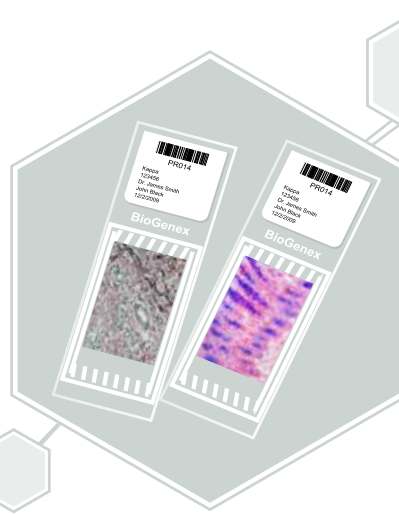
Placing the NordicWare® Microwave Pressure Cooker within a microwave is an effective method for enhancing staining with the Antigen Retrieval technique. The heat produced under enhanced pressure can reduce the build up of gas bubbles on the surface of tissues. This improves the intensity of staining, accompanied by preservation of tissue and cell morphology. This pressure cooker is also optimized for use with various BioGenex Antigen Retrieval solutions. BioGenex Catalog number: NW001-PC.



3. PAP Pen for Tissue Staining

The PAP Pen is a useful pen-like tool for immunohistochemical staining methods. It is designed to prevent the waste of valuable reagents by forming a water-repellent barrier around the specimen. This barrier creates the proper surface tension to hold an antibody solution or detection reagents within the target area on the slide. The surface tension provided by the PAP Pen circle ensures that only the amount of antibody solution needed for sufficient reaction will be applied. Since over-flooding of the slide is eliminated, wiping of excess fluid around the specimen can be avoided. The PAP Pen can be used for immunostaining of paraffin sections, frozen sections, and for fluorescent antibody methods. The PAP Pen contains a special formulation, which is water repellent. It can be removed, if desired, with xylene or xylene substitutes after the staining procedure is completed. BioGenex Catalog Number: XT001-PP, sufficient for use on 500-1000 slides.





Tissue Control





Positive Control Slides and Barrier Slides

Positive control slides are made with tissue which has undergone processing identical to that of the test tissue. BioGenex provides positive control slides that enable one to confirm antibody reactivity.

Barrier slides are positive control tissue slides with barriers to prevent loss of reagent.

Pack Size: Positive Control slides (5 slides per pack)

Barrier slides (5 slides per pack)

Antibody	Clone	Recommended Positive Control	Control Slides Cat. No	Barrier Slides Cat. No
ABCC3	Polyclonal	COLON CA	FG-800P	FB-800P
Aberrant Endothelial Cell	4A11	TONSIL	FG-382M	FB-382M
ACTH	AH26	Pituitary	FG-487M	FB-487M
Actin; Muscle-Specific	HHF35	MUSCLE	FG-090M	FB-090M
Actin; Smooth Muscle	1A4	STOMACH	FG-128M	FB-128M
Adenovirus	A62020069P	BION SLIDE	FG-059M	FB-059M
ALK/p80	SP8	ADENO CA	FG-770N	FB-770N
Alpha-1-Antichymotrypsin	a1A88	LIVER CA	FG-388M	FB-388M
Alpha-1-Antitrypsin	Polyclonal	HEPATOCELLULAR CA	FG-015P	FB-015P
Alpha-Actinin	JLN20	MUSCLE	FG-097M	FB-097M
Alpha-Fetoprotein (AFP)	C3	HEPATOCELLULAR CA	FG-008M	FB-008M
Alpha-Tubulin	DM-1A	LUNG	FG-121M	FB-121M
Anaplastic Lymphoma Kinase (ALK)	SP144	ANAPLASTIC LYMPHOMA	FG-874N	FB-874N
Androgen Receptor	F39.4.1	PROSTATE HYPER	FG-256M	FB-256M
B Cell	MB2	TONSIL	FG-158M	FB-158M
B Lymphocyte Antigen 36; BLA-36	A27-42	HODGKIN	FG-231M	FB-231M
Basic Fibroblast Growth Factor (bFGF)	bFGF88	ADENO CA	FG-359M	FB-359M
Bax Protein	Polyclonal	BREAST CA	FG-347P	FB-347P
BCL-2	EP36	BREAST CA	FG-723N	FB-723N
bcl-2 Oncoprotein	bcl-2/100	TONSIL	FG-287M	FB-287M
Bcl-2 α	SP66	TONSIL	FG-758N	FB-758N
BCL-6	LN22	TONSIL	FG-708M	FB-708M
Bcl-x	EP94	TONSIL	FG-819N	FB-819N
BCR-ABL	7C6	LIVER CA	FG-903M	FB-903M
Beta-Catenin	EP35	BREAST	FG-778N	FB-778N
Beta-Tubulin	DM-1B	LUNG	FG-122M	FB-122M
Beta-Tubulin II	JDR3B8	COLON	FG-176M	FB-176M
Beta-Tubulin III	SDL3D10	HEART	FG-177M	FB-177M
Beta-Tubulin IV	ONS1A6	LUNG	FG-178M	FB-178M
Blood Group Antigen Lewis A	7LE	STOMACH	FG-303M	FB-303M
Blood Group Antigen Lewis B	2-25LE	STOMACH	FG-304M	FB-304M
BRCA1 Protein	Polyclonal	BREAST CA	FG-345P	FB-345P
Breast Cancer Antigen (BCA) 225	CU18	BREAST CA	FG-135M	FB-135M
c-erbB-2 (HER-2/neu)	SP101	BREAST CA	FG-752N	FB-752N
c-erbB-2 (HER-2/neu)	SP3	BREAST CA	FG-753N	FB-753N
c-erbB-2 (Her-2/neu)	CB11	BREAST CA	FG-134M	FB-134M
c-erbB-3 (HER-3)	RTJ1/A2	BREAST CA	FG-319M	FB-319M
c-Kit / CD117	EP10	STOMACH	FG-818N	FB-818N
c-myc Protein	9.00E+10	ADENO CA	FG-318M	FB-318M

NOTE: The list for positive control slides is constantly being updated, depending upon tissue availability. Please call 1(800) 421-4149 for availability or visit our website at www.biogenex.com



Antibody	Clone	Recommended Positive Control	Control Slides Cat. No	Barrier Slides Cat. No
CA 125	Ov185:1	OVARY CA	FG-429M	FB-429M
CA 19-9	C241:5:1:4	COLON	FG-424M	FB-424M
Caldesmon	EP19	UTERUS	FG-774N	FB-774N
Caldesmon HMW, Smooth muscle	h-CD	LEIOMYOMA	FG-332M	FB-332M
Calponin	CALP	BREAST CA	FG-333M	FB-333M
Calponin-1	EP63	PLEOMORPHIC ADENOMA	FG-821N	FB-821N
Calretinin	SP13	MESOTHELIOMA	FG-747N	FB-747N
Calretinin	Polyclonal	CEREBRUM, CORTEX	FG-413P	FB-413P
Calretinin	2.00E+07	Cerebellum	FG-583M	FB-583M
Carcinoembryonic Antigen (CEA)	Polyclonal	COLON CA	FG-009P	FB-009P
Carcinoembryonic Antigen (CEA)	B01-94-11M-P	COLON CA	FG-009M	FB-009M
Carcinoembryonic Antigen (CEA)	CEA88	COLON CA	FG-365M	FB-365M
Catenin Delta 1 (P120)	Polyclonal	BREAST CA	FG-706P	FB-706P
Cathepsin D	C15	BREAST CA	FG-467M	FB-467M
CD10	56C6	KIDNEY	FG-451M	FB-451M
CD103	EP206	COLON CA	FG-739N	FB-739N
CD105	4G11	UTERUS	FG-441M	FB-441M
CD117	T595	STOMACH	FG-423M	FB-423M
CD117/c-Kit/SCF-Receptor	Polyclonal	GIST	FG-759P	FB-759P
CD11b/ITAM	M01	FROZEN TONSIL	FG-270M	FB-270M
CD11b/ITAM	EP45	SPLEEN	FG-851N	FB-851N
CD11c	EP157	TONSIL	FG-822N	FB-822N
CD13	EP117	LYMPHOMA	FG-832N	FB-832N
CD138	EP201	TONSIL	FG-837N	FB-837N
CD14	EP128	TONSIL	FG-814N	FB-814N
CD146	EP54	PLACENTA	FG-716N	FB-716N
CD15 (Blood group antigen Lewis X)	BRA4F1	HODGKIN	FG-302M	FB-302M
CD16	2H7	LYMPH NODE	FG-437M	FB-437M
CD16a	SP189	TONSIL/LUNG	FG-749N	FB-749N
CD16a	SP175	TONSIL	FG-762N	FB-762N
CD19	EP169	TONSIL	FG-729N	FB-729N
CD1a	O10	LYMPH NODE	FG-490M	FB-490M
CD2	AB75	LYMPHOMA	FG-438M	FB-438M
CD20	CD20/C23	SPLEEN	FG-537M	FB-537M
CD20 (B cell)	L-26	TONSIL	FG-238M	FB-238M
CD205	EP176	TONSIL	FG-737N	FB-737N
CD21	B2	FROZEN TONSIL	FG-266M	FB-266M
CD21	SP186	TONSIL	FG-745N	FB-745N
CD21	EP64	TONSIL	FG-825N	FB-825N
CD22	FPC1	TONSIL	FG-439M	FB-439M
CD227 (MUCIN 1)	VU-4H5	MUCINOUS ADENO CA	FG-534M	FB-534M
CD23	Polyclonal	LYMPH NOSE	FG-460P	FB-460P
CD27	Polyclonal	TONSIL	FG-912P	FB-912P
CD29	JB1a	BREAST	FG-298M	FB-298M
CD3 (T cell)	UCHT1	FROZEN TONSIL	FG-258M	FB-258M
CD3 (T Cell)	EP41	LYMPHOMA	FG-846N	FB-846N
CD3 (T Cell)	PS1	TONSIL	FG-322M	FB-322M

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Antibody	Clone	Recommended Positive Control	Control Slides Cat. No	Barrier Slides Cat. No
CD30 (Ki-1 Antigen)	Ber-H2	HODGKIN	FG-327M	FB-327M
CD30 (Ki-1 Antigen)	HRS-4	HODGKIN	FG-351M	FB-351M
CD31 (Endothelial Cell)	JC/70A	COLON CA	FG-232M	FB-232M
CD31 (PECAM-1)	9G11	TONSIL	FG-241M	FB-241M
CD34 (Endothelial Cell)	EP88	COLON CA	FG-779N	FB-779N
CD34 (Endothelial Cell)	QBend/10	COLON CA	FG-236M	FB-236M
CD35	SP191	TONSIL	FG-741N	FB-741N
CD35	RLB25	TONSIL	FG-431M	FB-431M
CD38	SP149	TONSIL	FG-769N	FB-769N
CD4	EP204	TONSIL	FG-722N	FB-722N
CD4	4B12	TONSIL	FG-421M	FB-421M
CD40	CL1673	TONSIL	FG-913M	FB-913M
CD41/Integrin	EP178	SPLEEN CA	FG-732N	FB-732N
CD43 (T Cell, Leukosialin)	DFT-1	TONSIL	FG-305M	FB-305M
CD43 (T Cell, Leukosialin)	SP55	TONSIL	FG-748N	FB-748N
CD43 & CD45RA Cocktail	MT1 & MB1	TONSIL	FG-159M	FB-159M
CD44 (Phagocytic Glycoprotein-1, HCAM)	DF1485	TONSIL	FG-310M	FB-310M
CD45 (Leukocyte common Antigen, LCA)	PD7/26/16 & 2B11	TONSIL	FG-111M	FB-111M
CD45 (Leukocyte common Antigen, LCA)	LJ27.9	TONSIL	FG-338M	FB-338M
CD45 Cocktail (Leukocyte Antigen, LCA)	MEM55+LJ27.9	TONSIL	FG-371M	FB-371M
CD45RA (B cell)	MB1	TONSIL	FG-157M	FB-157M
CD45RB	MEM55	TONSIL	FG-320M	FB-320M
CD45RC (T Cell)	MT2	TONSIL	FG-156M	FB-156M
CD45RO (T Cell)	UHL-1	TONSIL	FG-113M	FB-113M
CD48	EP148	TONSIL	FG-721N	FB-721N
CD5	EP77	TONSIL	FG-824N	FB-824N
CD5	4C7	TONSIL	FG-430M	FB-430M
CD53	EP179	TONSIL	FG-734N	FB-734N
CD56 (Natural Killer Cell, NCAM)	NKH-1	FROZEN TONSIL	FG-268M	FB-268M
CD57 (Natural Killer Cell)	NK-1	TONSIL	FG-314M	FB-314M
CD63	EP211	PROSTATE/MELANOMA	FG-720N	FB-720N
CD66	BY114	TONSIL	FG-325M	FB-325M
CD68	KP1	LYMPH NODE	FG-416M	FB-416M
CD68	CD68/G2	HISTIOCYTOMA	FG-549M	FB-549M
CD7	SP94	TONSIL	FG-761N	FB-761N
CD7	LP15	TONSIL	FG-702M	FB-702M
CD71 (transferrin Receptor)	T9	FROZEN TONSIL	FG-269M	FB-269M
CD71 (transferrin Receptor)	H68.4	BONE MARROW	FG-354M	FB-354M
CD73	1D7	TONSIL	FG-904M	FB-904M
CD74 (B cell)	LN2	TONSIL	FG-153M	FB-153M
CD79a	EP82	LYMPH NODE	FG-719N	FB-719N
CD79a	SP18	TONSIL	FG-767N	FB-767N
CD79a	11E 3	TONSIL	FG-414M	FB-414M
CD8	SP16	TONSIL	FG-740N	FB-740N
CD8	T8	FROZEN TONSIL	FG-261M	FB-261M
CD8	1A5	Tonsil	FG-422M	FB-422M
CD82	EP160	ADENO CA	FG-757N	FB-757N

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Antibody	Clone	Recommended Positive Control	Control Slides Cat. No	Barrier Slides Cat. No
CD90	EP56	THYMUS	FG-733N	FB-733N
CD95	EP208	TONSIL	FG-742N	FB-742N
CD99	EP8	EWING'S SARCOMA	FG-850N	FB-850N
CD99	H036.1.1	EWINGS SARCOMA	FG-355M	FB-355M
CDK1	A17.1.1	TONSIL	FG-905M	FB-905M
CDK2	SP80	TONSIL	FG-906N	FB-906N
CDK9	K.513.1	CERVICAL CA	FG-908N	FB-908N
CDw75 (B cell)	LN1	TONSIL	FG-152M	FB-152M
CDX-2	EP25	COLON CA	FG-777N	FB-777N
CDX-2	CDX2-88	COLON	FG-392M	FB-392M
CEACAM1	Polyclonal	COLON CA	FG-909P	FB-909P
Chromogranin A	LK2H10	PANCREAS	FG-126M	FB-126M
Chromogranin A	PHE-5	PANCREAS	FG-356M	FB-356M
Claudin-5	EP224	LUNG SQUAMOUS CA	FG-718N	FB-718N
Coagulation Factor XIIIa	SP196	PLACENTA	FG-755N	FB-755N
Collagen III	HWD1.1	SKIN	FG-167M	FB-167M
Collagen IV	COL-94	SKIN	FG-379M	FB-379M
CSF1R	SP211	TONSIL	FG-914N	FB-914N
Cyclin D1	EP12	BREAST CA	FG-815N	FB-815N
Cyclin D1	Polyclonal	BREAST CA	FG-447P	FB-447P
Cyclin E1	EP126	PLACENTA	FG-854N	FB-854N
Cytokeratin 10	DEK-10	SKIN	FG-201M	FB-201M
Cytokeratin 13	AE8	TONSIL	FG-132M	FB-132M
Cytokeratin 14	EP61	PROSTATE	FG-831N	FB-831N
Cytokeratin 14	LL002	SQUAMOUS CELL CA	FG-146M	FB-146M
Cytokeratin 15	EP14	SQUAMOUS	FG-855N	FB-855N
Cytokeratin 17	E27	SQUAMOUS CELL CA	FG-572M	FB-572M
Cytokeratin 18	DC-10	BREAST CA	FG-143M	FB-143M
Cytokeratin 19	RCK108	COLON CA	FG-246M	FB-246M
Cytokeratin 20	EP23	COLON CA	FG-849N	FB-849N
Cytokeratin 20	IT-Ks20.8	COLON CA	FG-315M	FB-315M
Cytokeratin 4	6B10	Tonsil	FG-705M	FB-705M
Cytokeratin 4	EP4	ESOPHAGUS	FG-717N	FB-717N
Cytokeratin 5	EP24	MESOTHELIOMA	FG-847N	FB-847N
Cytokeratin 5	EP42	CERVICAL CA	FG-853N	FB-853N
Cytokeratin 5 & 6	EP24 & EP67	CERVICAL CA	FG-892N	FB-892N
Cytokeratin 5 + Cytokeratin 14	EP24 + EP61	PROSTATE	FG-730N	FB-730N
Cytokeratin 6	EP67	CERVICAL	FG-845N	FB-845N
Cytokeratin 7	OV-TL12/30	BREAST CA	FG-255M	FB-255M
Cytokeratin 7 & 8	OV-TL12/30 & C51	BREAST CA	FG-587M	FB-587M
Cytokeratin 8	C51	BREAST CA	FG-142M	FB-142M
Cytokeratin 8 & 18	5D3	COLON CA	FG-131M	FB-131M
Cytokeratin Cocktail	AE1 & AE3	SKIN	FG-071M	FB-071M
Cytokeratin cocktail, broad spectrum	34βE12/C51/AE1	SKIN, BREAST CA	FG-273M	FB-273M
Cytokeratin cocktail, broad spectrum	LLO02+DEK-10+RCK108+OV-TL12/30+C11	BREAST CA	FG-372M	FB-372M
Cytokeratin HMW (Basic)	AE3	SQUAMOUS CELL CA	FG-133M	FB-133M

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Antibody	Clone	Recommended Positive Control	Control Slides Cat. No	Barrier Slides Cat. No
Cytokeratin, High MW	34βE12	PROSTATE	FG-291M	FB-291M
Cytokeratin, Low MW	AE1	BREAST CA	FG-075M	FB-075M
Cytokeratin, Pan	Lu-5	COLON CA	FG-181M	FB-181M
Cytokeratin, Pan	C11	BREAST CA	FG-357M	FB-357M
Cytomegalovirus (CMV)	BM204	CMV INF. LUNG	FG-254M	FB-254M
Desmin	D33	LEIOMYMA	FG-072M	FB-072M
DOG1	1.1	Gist	FG-570M	FB-570M
Dystrophin	Dys1 (Dy4/6D3)	MUSCLE	FG-243M	FB-243M
Dystrophin	Dys2 (Dy8/6C5)	MUSCLE	FG-244M	FB-244M
E-Cadherin	EP6	BREAST CA	FG-725N	FB-725N
E-Cadherin	36	COLON CA	FG-390M	FB-390M
EGFR	EP22	LUNG SQUAMOUS CA	FG-781N	FB-781N
EGFR	Polyclonal	SQUAMOUS CA	FG-335P	FB-335P
Ep-CAM	EP155	ADENOMA	FG-820N	FB-820N
Epithelial Membrane Antigen (EMA)	E29	LUNG	FG-057M	FB-057M
Epithelial Membrane Antigen (EMA)	Mc5	BREAST CA	FG-182M	FB-182M
Epithelial-Specific Antigen	MOC-31	COLON CA	FG-316M	FB-316M
Epstein-Barr Virus (EBV) Early Antigen	1108-1	BION SLIDE	FG-222M	FB-222M
ERG, Ets-Related Gene	EP111	PROSTATE	FG-782N	FB-782N
Estradiol	Polyclonal	BREAST CA	FG-038P	FB-038P
Estrogen Recepto (ER) Beta	Polyclonal	BREAST CA	FG-385P	FB-385P
Estrogen Receptor (ER) Alpha	EP1	BREAST CA	FG-710N	FB-710N
Estrogen Receptor, ER (InSite®)	ER88	Breast Ca	FG-368M	FB-368M
Factor VIII-Related Antigen	F8 2.2.9	LEIOMYOMA	FG-016M	FB-016M
Factor XIIIa	E980.1	PLACENTA	FG-337M	FB-337M
Factor-XIIIa	EP3372	BONE MARROW	FG-516N	FB-516N
Fascin	FCN01	LYMPH NODE	FG-488M	FB-488M
FLI1	Polyclonal	EWING'S SARCOMA	FG-798P	FB-798P
Follicle Stimulating Hormone (FSH)	FSH03	PITUITARY	FG-765M	FB-765M
Follicle Stimulating Hormone (FSH)	Polyclonal	PITUITARY	FG-766P	FB-766P
Gastrin	Polyclonal	STOMACH	FG-019P	FB-019P
GCDFP-15	EP95	BREAST CA	FG-856N	FB-856N
GITR	Polyclonal	TONSIL	FG-915P	FB-915P
Glial Fibrillary Acidic Protein (GFAP)	EP13	CEREBELLUM	FG-783N	FB-783N
Glial Fibrillary Acidic Protein (GFAP)	GA-5	CEREBELLUM	FG-020M	FB-020M
Glial Fibrillary Acidic Protein (GFAP)	Polyclonal	CEREBELLUM	FG-020P	FB-020P
Glomerular Epithelial Protein 1 (GLEPP-1)	5C11	KIDNEY	FG-336M	FB-336M
Glucagon	Polyclonal	PANCREAS	FG-039P	FB-039P
GLUT-1	SPM498	SQUAMOUS CA	FG-505M	FB-505M
Glutathione S-Transferase Pi (GST Pi)	Polyclonal	BREAST	FG-249P	FB-249P
Glycophorin A + B	E3	PLACENTA	FG-889M	FB-889M
Glypican-3 (GPC3)	GPC3-88	Hepatocellular Ca	FG-539M	FB-539M
Granulocyte	BM-2	Hodgkin	FG-210M	FB-210M
Heat Shock Protein 27 (HSP 27)	G3.1	BREAST CA	FG-171M	FB-171M
Heat Shock Protein 70 (HSP 70)	BRM-22	BREAST CA	FG-289M	FB-289M
Helicobacter pylori	ULC3R	STOMACH	FG-880M	FB-880M
Hemoglobin A	Polyclonal	PLACENTA	FG-021P	FB-021P

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Hepatitis B Virus Core Antigen (HBcAg)	Polyclonal	HEPATITIS	FG-082P	FB-082P
Her2/ErbB2	EP3	Breast Ca	FG-726N	FB-726N
Herpes Simplex Virus Type I (HSV I)	Polyclonal	HSV INF. CULTURE	FG-084P	FB-084P
Herpes Simplex Virus Type II (HSV II)	Polyclonal	HSV INF. CULTURE	FG-085P	FB-085P
HLA-DR	LN3	TONSIL	FG-154M	FB-154M
HSA	HSA/E8	LIVER	FG-550M	FB-550M
Human Chorionic Gonadotropin (hCG) Beta	M94138	PLACENTA	FG-395M	FB-395M
human Growth Hormon (hGH)	Polyclonal	PLACENTA	FG-707P	FB-707P
IDO	4D2	SPLEEN	FG-916M	FB-916M
IgA	Polyclonal	TONSIL	FG-045P	FB-045P
IgD	Polyclonal	TONSIL	FG-440P	FB-440P
IgG	Polyclonal	TONSIL	FG-050P	FB-050P
IgG	IgG88	TONSIL	FG-367M	FB-367M
IgM	IgM88	TONSIL	FG-366M	FB-366M
IgM	Polyclonal	TONSIL	FG-427P	FB-427P
Inhibin-Alpha	R1	OVARY	FG-446M	FB-446M
Insulin	EP125	PANCREAS	FG-735N	FB-735N
Insulin	HB125	PANCREAS	FG-029M	FB-029M
J chain	SP105	TONSIL	FG-756N	FB-756N
J chain	JC88	TONSIL, LYMPH NODE	FG-374M	FB-374M
Kappa Light Chain	L1C1	TONSIL	FG-048M	FB-048M
Kappa Light Chain	K88	TONSIL	FG-369M	FB-369M
Ki-67	MIB-1	LYMPHOMA, LYMPH NODE, TONSIL	FG-297M	FB-297M
Ki-67	Ki88	Lymphoma, Lymph Node, Tonsil	FG-370M	FB-370M
Ki-67	K-2	TONSIL	FG-410M	FB-410M
Ki-67 + Lambda Light Chain	K-2 + Polyclonal	TONSIL	#N/A	#N/A
KRAS	Polyclonal	COLON CA	FG-751P	FB-751P
LAG3	Polyclonal	TONSIL	FG-917P	FB-917P
Lambda Light Chain	SP147	TONSIL	FG-763N	FB-763N
Lambda Light Chain	Polyclonal	TONSIL	FG-049P	FB-049P
Lambda light chain	EP172	Tonsil	FG-715N	FB-715N
Laminin	Polyclonal	BRONCHUS	FG-078P	FB-078P
Luteinizing Hormone (LH)	SP132	PITUITARY	FG-787N	FB-787N
Lysozyme	Polyclonal	LYMPH NODE	FG-024P	FB-024P
Macrophage	LN5	LIVER	FG-165M	FB-165M
Mast Cell Tryptase	AA1	SKIN	FG-419M	FB-419M
MCM2	SP85	CERVICAL CA	FG-773N	FB-773N
MCM2	EP40	TONSIL	FG-834N	FB-834N
Melan-A (MART-1)	A103	MELANOMA	FG-361M	FB-361M
Melanoma	HMB45	MELANOMA	FG-001M	FB-001M
Melanoma gp100	gp100/D5	MELANOMA	FG-536M	FB-536M
Melanoma-Associated Antigen	NKI/C3	MELANOMA	FG-077M	FB-077M
Mesothelin	5B2	OVARYADENOMA	FG-433M	FB-433M
MiTF	MiTf/A13	MELANOMA	FG-554M	FB-554M
Mitochondrial Antigen	113-1	LIVER	FG-213M	FB-213M
MLH1	ES05	COLON	FG-703M	FB-703M

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MMP-9	EP127	BONE MARROW	FG-816N	FB-816N
MSH2	SP46	COLON CA	FG-743N	FB-743N
MSH2	RED2	COLON CA	FG-744N	FB-744N
MSH6	2D4B5	Colon Ca	FG-454M	FB-454M
MUC4	1G8	COLON CA	FG-455M	FB-455M
MUC5AC	45M1	GASTRO-INTESTINE	FG-456M	FB-456M
Mucin 1 (MUC1)	EP85	BREAST	FG-813N	FB-813N
Mucin 2 (MUC2)	CCP58	COLON CA	FG-358M	FB-358M
Multi-Drug Resistance Marker (P-Glycoprotein)	MDR88	ADRENAL GLAND	FG-391M	FB-391M
Mum/IRF4	SP114	HODGKINS	FG-750N	FB-750N
Muscle Actins	Actin 88 Cocktail	MUSCLE	FG-381M	FB-381M
Myelin Basic Protein	MBP88	CEREBELLUM	FG-380M	FB-380M
Myeloid Specific Antigen	BM-1	LYMPH NODE	FG-164M	FB-164M
Myeloid Specific Antigen	BM-3	LYMPH NODE	FG-216M	FB-216M
Myeloperoxidase (MPO)	Polyclonal	SPLEEN	FG-496P	FB-496P
Myf4	LO26	RHABDOMYOSARCOMA	FG-432M	FB-432M
Myogenin	EP162	RHABDOMYOSARCOMA	FG-789N	FB-789N
Myoglobin	MG-1	MUSCLE	FG-012M	FB-012M
Myoglobin	Polyclonal	MUSCLE	FG-012P	FB-012P
Myosin Heavy Chain, Smooth Muscle	SMMS.1	BREAST	FG-331M	FB-331M
Myosin, Skeletal Muscle	MY-32	MUSCLE	FG-109M	FB-109M
Napsin A	IP64	LUNG / ADENO CA	FG-701M	FB-701M
Neurofilament	NE-14	NERVE	FG-073M	FB-073M
Neuron Specific Enolase (NSE)	MIG-N3	NERVE	FG-055M	FB-055M
NGF Receptor	EP31	BRAIN	FG-738N	FB-738N
2-Oct	EP115	TONSIL	FG-830N	FB-830N
4-Oct	EP143	TESTIS	FG-724N	FB-724N
Osteonectin	OST1	OSTEOSARCOMA	FG-387M	FB-387M
p105 PANA	2B3	TONSIL	FG-317M	FB-317M
p120 (Catenin delta 1)	SP63	BREAST	FG-760N	FB-760N
p16 (INK4a)	G175-405	CERVICAL CARINOMA, SQUAMOUS CELL CARINOMA	FG-540M	FB-540M
p16 + Ki67	G175-405 + EPR3611	CERVICAL CA	FG-601C	FB-601C
p21/WAF1	4D10	MELAMONA	FG-434M	FB-434M
p27 (Kip1)	EP104	BREAST	FG-817N	FB-817N
p27 (Kip1)	DCS72	BREAST	FG-396M	FB-396M
p34 (cdc2 Cyclin Dependent Kinase)	POH-1	Tonsil	FG-301M	FB-301M
P504S (AMACR)	13H4	PROSTATE CA	FG-449N	FB-449N
P504S (AMACR)	RBT-AMACR	PROSTATE CA	FG-538N	FB-538N
P53	EP9	Breast Ca	FG-728N	FB-728N
p53 Protein	BP53-12-1	BREAST CA	FG-195M	FB-195M
p53 Protein	DO7	BREAST CA.	FG-239M	FB-239M
p53 Protein	1801	Breast Ca	FG-240M	FB-240M
PAP	A40010	PROSTATE CA	FG-532M	FB-532M
Papillomavirus Type 16 (HPV-16)	Cam Vir-1	HPV INF	FG-362M	FB-362M
Pax-5	ZP007	TONSIL	FG-457M	FB-457M
Paxillin	EP89	BREAST CA	FG-876N	FB-876N

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PD-1	NAT105	TONSIL	FG-918M	FB-918M
PDCD4	EP102	COLON CA	FG-875N	FB-875N
PGP9.5	3D9	BRAIN	FG-736M	FB-736M
Placental Alkaline Phosphatase (PLAP)	PL8-F6	PLACENTA	FG-228M	FB-228M
Placental Lactogen (hPL)	Polyclonal	PLACENTA	FG-040P	FB-040P
Platelet-Derived Growth Factor (PDGF)	PDGF88	SQUAMOUS CA	FG-376M	FB-376M
Platelet-Derived Growth Factor (PDGF)	Polyclonal	SQUAMOUS CA	FG-376P	FB-376P
PMS2	EP51	COLON CA	FG-844N	FB-844N
Progesterone Receptor	1A6	BREAST CA	FG-172M	FB-172M
Progesterone Receptor (PR)	EP2	BREAST CA	FG-711N	FB-711N
Progesterone Receptor, PR (InSite®)	PR88	Breast CA	FG-328M	FB-328M
Prolactin	ME.121	Pituitary	FG-031M	FB-031M
Proliferating Cell Nuclear Antigen (PCNA)	PC10	COLON CA	FG-252M	FB-252M
Prostate Specific Acid Phosphatase (PSAP)	B01-94-21M-NA	PROSTATE HYPER	FG-013M	FB-013M
Prostate Specific Antigen (PSA)	ErPr8	PROSTATE HYPER	FG-014M	FB-014M
pS2 Estrogen Inducible Protein	PS2.1	BREAST CA	FG-190M	FB-190M
PSMA	EP192	PROSTATE	FG-714N	FB-714N
PSMA	SP29	PROSTATE CA	FG-768N	FB-768N
PTEN	SP218	PROSTATE CA	FG-746N	FB-746N
PU.1	EP18	LYMPHOMA	FG-843N	FB-843N
Renal Cell Carcinoma (RCC)	RCC-26	RENAL CELL CARCINOMA	FG-543M	FB-543M
Ribonucleoprotein (RNP)	58-15	SPLEEN	FG-230M	FB-230M
S-100 Protein	15E2E2	MELANOMA	FG-058M	FB-058M
S-100 Protein	Polyclonal	MELANOMA	FG-058P	FB-058P
S100 Beta	EP32	MELANOMA	FG-713N	FB-713N
S100P	EP186	MELANOMA	FG-712N	FB-712N
Sarcomeric Actin	ZMSA-5	MUSCLE	FG-511M	FB-511M
Secretin	Polyclonal	STOMACH	FG-067P	FB-067P
SLAMF7	Polyclonal	TONSIL	FG-920P	FB-920P
SOX2	EP103	SQUAMOUS	FG-833N	FB-833N
SOX2	Polyclonal	UTERUS CERVIX	FG-788P	FB-788P
Substance P	Polyclonal	HYPOTHALAMUS	FG-069P	FB-069P
Survivin	EP119	BLADDER	FG-826N	FB-826N
Synaptophysin	EP158	PANCREAS	FG-857N	FB-857N
Synaptophysin	Snp88	PANCREAS	FG-363M	FB-363M
Tau	TAU-2	CEREBELLUM	FG-412M	FB-412M
Tau	Tau-5	CEREBELLUM	FG-459M	FB-459M
Terminal Deoxynucleotidyl Transferase (TdT)	EP266	THYMOMA	FG-881N	FB-881N
Thyroglobulin	2H11	FOLLICULAR ADENOMA	FG-032M	FB-032M
Thyroid Stimulating Hormone (TSH)	Polyclonal	Pituitary	FG-033P	FB-033P
Thyroid Stimulating Hormone (TSH)	5404	Pituitary	FG-033M	FB-033M
Thyroxine	D5	THYROID	FG-034M	FB-034M
TIA-1	2G9A10F5	ANAPLASTIC LARGE	FG-529M	FB-529M
Topoisomerase II, Alpha (TOP2A)	EP93	BREAST CA	FG-823N	FB-823N
Toxoplasma gondii	Polyclonal	TOXOPLASMA INF.	FG-125P	FB-125P
Transferrin	HT1/13.6.3	LIVER	FG-025M	FB-025M
Transforming Growth Factor (TGF) Alpha	TGF88	BREAST CA	FG-377M	FB-377M

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TTF-1 + GCDFP-15	8G7G3/1 + EP1582Y	LUNG /BREAST	#N/A	#N/A
Tumor-Associated Glycoprotein (TAG-72)	B72.3	BREAST CA	FG-054M	FB-054M
Tumor-Associated Glycoprotein (TAG-90 BCA)	B6.2	BREAST CA	FG-005M	FB-005M
Tyrosinase	Ty/G5	MELANOMA	FG-535M	FB-535M
VEGF	Polyclonal	ANGIOSARCOMA	FG-483P	FB-483P
Vimentin	LN6	LEIOMYOMA	FG-163M	FB-163M
Vimentin	V9	LEIOMYOMA	FG-074M	FB-074M
VIP	Polyclonal	COLON	FG-530P	FB-530P
ZAP-70	EP52	TONSIL	FG-852N	FB-852N
ZAP-70	ZAP70-C3	TONSIL	FG-544M	FB-544M

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A				
ABCC3	Polyclonal	PU800-5UP,PU800-UP,AR800-5R,AW800-50D,AR800-10R,AW800-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 54, 194
Aberrant Endothelial Cell	4A11	MU382-5UC,MU382-UC,AM382-5M,AX382-50D,AM382-10M,AX382-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 54, 194
ABL1 probe	-	PR261-YAD,PR261-100	25 test, 0.650 ml	160
Acid-Fast Bacteria (AFB) Green Stain	-	SS059-50X	50 test	1,76,181
Acid-Fast Bacteria Stain Kit (Blue)	-	SS025-50X	50 test	1,76,181
ACTH	AH26	MU487-5UC,MU487-UC,AM487-5M,AX487-50D,AM487-10M,AX487-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 54, 194
Actin; Muscle-Specific	HHF35	MU090-5UC,MU090-UC,AM090-5M,AX090-50D,AM090-10M,AX090-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16,45, 54, 194
Actin; Smooth Muscle	1A4	MU128-5UC,MU128-UC,AM128-5M,AX128-50D,AM128-10M,AX128-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16,45, 55, 194
Adenovirus	A62020069P	MU059-5UC,MU059-UC,AM059-5M,AX059-50D,AM059-10M,AX059-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 55, 194
AEC - One Step Solution	-	HK139-06K, HK139-50K	6ml, 50 ml	151, 165, 186
AFP probe	-	PR284-YAD,PR284-100	25 test, 0.650 ml	160
Alcian Blue pH 2.5 Stain Kit	-	SS012,SS027-50X	50 test, 50 test	176, 181
Alcian Blue/PAS Stain Kit	-	SS020,SS026-50X	50 test, 50 test	176, 181
Alizarin Red Stain manual use only!	-	SS052-50K	50 test	176, 181
ALK probe	-	PR268-YAD,PR268-100	25 test, 0.650 ml	160
ALK/p80	SP8	NU770-5UC,NU770-UC,AN770-5M,AY770-50D,AN770-10M,AY770-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 57, 194
Alpha-1-Antichymotrypsin	a1A88	MU388-5UC,MU388-UC,AM388-5M,AX388-50D,AM388-10M,AX388-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16,45, 55, 194
Alpha-1-Antitrypsin	Polyclonal	PU015-5UP,PU015-UP,AR015-5R,AW015-50D,AR015-10R,AW015-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16,45, 55, 194
Alpha-Actinin	JLN20	MU097-5UC,MU097-UC,AM097-5M,AX097-50D,AM097-10M,AX097-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16,45, 56, 194
Alpha-Fetoprotein (AFP)	C3	MU008A-5UC,MU008A-UC,AM008-5M,AX008-50D,AM008-10M,AX008-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16,45, 56, 194
Alpha-Tubulin	DM-1A	MU121-5UC,MU121-UC,AM121-5M,AX121-50D,AM121-10M,AX121-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16,45, 56, 194
Anaplastic Lymphoma Kinase (ALK)	SP144	NU874-5UC,NU874-UC,AN874-5M,AY874-50D,AN874-10M,AY874-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 57, 194
Androgen Receptor	F39.4.1	MU256-5UC,MU256-UC,AM256-5M,AX256-50D,AM256-10M,AX256-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16,45, 56, 194
B				
B Cell	MB2	MU158-5UC,MU158-UC,AM158-5M,AX158-50D,AM158-10M,AX158-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 57, 194
B Lymphocyte Antigen 36; BLA-36	A27-42	MU231-5UC,MU231-UC,AM231-5M,AX231-50D,AM231-10M,AX231-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 57, 194
Basic Fibroblast Growth Factor (bFGF)	bFGF88	AM359-5M,AX359-50D,AM359-10M,AX359-YCD	0.5 ml, 50 test, 100 test, 200 test	17, 45, 61, 194
Bax Protein	Polyclonal	PU347-5UP,PU347-UP,AR347-5R,AW347-50D,AR347-10R,AW347-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 58, 194
BCL-2	EP36	NU723-5UC,NU723-UC,AN723-5M,AY723-50D,AN723-10M,AY723-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 58, 194
bcl-2 Oncoprotein	bcl-2/100	AM287-5M,AX287-50D,AM287-10M,AX287-YCD	0.5 ml, 50 test, 100 test, 200 test	16, 45, 58, 194
Bcl-2α	SP66	NU758-5UC,NU758-UC,AN758-5M,AY758-50D,AN758-10M,AY758-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 58, 194
BCL-6	LN22	MU708-5UC,MU708-UC,AM708-5M,AX708-50D,AM708-10M,AX708-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 59, 194
Bcl-x	EP94	NU819-5UC,NU819-UC,AN819-5M,AY819-50D,AN819-10M,AY819-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 59, 194
BCR-ABL	7C6	MU903-5UC,MU903-UC,AM903-5M,AX903-50D,AM903-10M,AX903-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 59, 194



Description	Clone	Cat. No	Pack Size	Page
Beta-Catenin	EP35	NU778-5UC,NU778-UC,AN778-5M,AY778-50D,AN778-10M,AY778-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 59, 194
Beta-Tubulin	DM-1B	MU122-5UC,MU122-UC,AM122-5M,AX122-50D,AM122-10M,AX122-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 60, 194
Beta-Tubulin II	JDR3B8	MU176-5UC,MU176-UC,AM176-5M,AX176-50D,AM176-10M,AX176-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 60, 194
Beta-Tubulin III	SDL3D10	MU177-5UC,MU177-UC,AM177-5M,AX177-50D,AM177-10M,AX177-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	16, 45, 60, 194
Beta-Tubulin IV	ONS1A6	MU178-5UC,MU178-UC,AM178-5M,AX178-50D,AM178-10M,AX178-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 60, 194
Blood Group Antigen Lewis A	7LE	MU303-5UC,MU303-UC,AM303-5M,AX302-50D,AM303-10M,AX303-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 61, 194
Blood Group Antigen Lewis B	2-25LE	MU304-5UC,MU304-UC,AM304-5M,AX304-50D,AM304-10M,AX304-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 61, 194
BRCA1 Protein	Polyclonal	PU345-5UP,PU345-UP,AR345-5R,AW345-50D,AR345-10R,AW345-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 61, 194
Breast Cancer Antigen (BCA) 225	CU18	AM135-5M,AX135-50D,AM135-10M,AX135-YCD	0.5 ml, 50 test, 100 test, 200 test	16, 45, 62, 194
C				
CA 125	Ov185:1	MU429-5UC,MU429-UC,AM429-5M,AX429-50D,AM429-10M,AX429-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 62, 195
CA 19-9	C241:5:1:4	MU424-5UC,MU424-UC,AM424-5M,AX424-50D,AM424-10M,AX424-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 62, 195
Caldesmon	EP19	NU774-5UC,NU774-UC,AN774-5M,AY774-50D,AN774-10M,AY774-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 62, 195
Caldesmon HMW, Smooth muscle	h-CD	MU332-5UC,MU332-UC,AM332-5M,AX332-50D,AM332-10M,AX332-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 63, 195
Calponin	CALP	MU333-5UC,MU333-UC,AM333-5M,AX333-50D,AM333-10M,AX333-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 63, 195
Calponin-1	EP63	NU821-5UC,NU821-UC,AN821-5M,AY821-50D,AN821-10M,AY821-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 63, 195
Calretinin	Polyclonal	PU413-5UP,PU413-UP,AR413-5R,AW413-50D,AR413-10R,AW413-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 64, 195
Calretinin	2E7	MU583-5UC,MU583-UC,AM583-5M,AX583-50D,AM583-10M,AX583-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 63, 195
Calretinin	SP13	NU747-5UC,NU747-UC,AN747-5M,AY747-50D,AN747-10M,AY747-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 45, 64, 195
Carcinoembryonic Antigen (CEA)	B01-94-11M-P	MU009-5UC,MU009-UC,AM009-5M,AX009-50D,AM009-10M,AX009-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 46, 64, 195
Carcinoembryonic Antigen (CEA)	Polyclonal	AR009-5R,AW009-50D,AR009-10R,AW009-YCD	0.5 ml, 50 test, 100 test, 200 test	17, 46, 65, 195
Carcinoembryonic Antigen (CEA)	CEA88	MU365-5UC,MU365-UC,AM365-5M,AX365-50D,AM365-10M,AX365-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 46, 64, 195
Catenin Delta 1 (P120)	Polyclonal	PU706-5UP,PU706-UP,AR706-5R,AW706-50D,AR706-10R,AW706-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 46, 65, 195
Cathepsin D	C15	MU467-5UC,MU467-UC,AM467-5M,AX467-50D,AM467-10M,AX467-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 46, 65, 195
CD10	56C6	MU451-5UC,MU451-UC,AM451-5M,AX451-50D,AM451-10M,AX451-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 46, 69, 195
CD103	EP206	NU739-5UC,NU739-UC,AN739-5M,AY739-50D,AN739-10M,AY739-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 46, 85, 195
CD105	4G11	MU441-5UC,MU441-UC,AM441-5M,AX441-50D,AM441-10M,AX441-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 46, 85, 195
CD117	T595	MU423-5UC,MU423-UC,AM423-5M,AX423-50D,AM423-10M,AX423-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 86, 195
CD117/c-Kit/SCF-Receptor	Polyclonal	PU759-5UP,PU759-UP,AR759-5R,AW759-50D,AR759-10R,AW759-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 86, 195
CD11b (C3bi receptor)	M01	AM270-5M,AX270-50D,AM270-10M,AX270-YCD	0.5 ml, 50 test, 100 test, 200 test	18, 46, 69, 195
CD11b/ITAM	EP45	NU851-5UC,NU851-UC,AN851-5M,AY851-50D,AN851-10M,AY851-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 69, 195
CD11c	EP157	NU822-5UC,NU822-UC,AN822-5M,AY822-50D,AN822-10M,AY822-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 70, 195



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CD13	EP117	NU832-5UC,NU832-UC,AN832-5M,AY832-50D,AN832-10M,AY832-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 70, 195
CD138	EP201	NU837-5UC,NU837-UC,AN837-5M,AY837-50D,AN837-10M,AY837-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 86, 195
CD14	EP128	NU814-5UC,NU814-UC,AN814-5M,AY814-50D,AN814-10M,AY814-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 70, 195
CD146	EP54	NU716-5UC,NU716-UC,AN716-5M,AY716-50D,AN716-10M,AY716-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 86, 195
CD15 (Blood group antigen Lewis X)	BRA4F1	MU302-5UC,MU302-UC,AM302-5M,AX302-50D,AM302-10M,AX302-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 70, 195
CD16	2H7	MU437-5UC,MU437-UC,AM437-5M,AX437-50D,AM437-10M,AX437-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 71, 195
CD16a	SP189	NU749-5UC,NU749-UC,AN749-5M,AY749-50D,AN749-10M,AY749-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 71, 195
CD16a	SP175	NU762-5UC,NU762-UC,AN762-5M,AY762-50D,AN762-10M,AY762-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 71, 195
CD19	EP169	NU729-5UC,NU729-UC,AN729-5M,AY729-50D,AN729-10M,AY729-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 71, 195
CD1a	O10	MU490-5UC,MU490-UC,AM490-5M,AX490-50D,AM490-10M,AX490-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 65, 195
CD2	AB75	MU438-5UC,MU438-UC,AM438-5M,AX438-50D,AM438-10M,AX438-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 66, 195
CD20	CD20/C23	MU537-5UC,MU537-UC,AM537-5M,AX537-50D,AM537-10M,AX537-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 72, 195
CD20 (B cell)	L-26	MU238A-5UC,MU238A-UC,AM238-5M,AX238-50D,AM238-10M,AX238-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 72, 195
CD205	EP176	NU737-5UC,NU737-UC,AN737-5M,AY737-50D,AN737-10M,AY737-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 87, 195
CD21	B2	AM266-5M,AX266-50D,AM266-10M,AX266-YCD	0.5 ml, 50 test, 100 test, 200 test	18, 46, 73, 195
CD21	SP186	NU745-5UC,NU745-UC,AN745-5M,AY745-50D,AN745-10M,AY745-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 72, 195
CD21	EP64	NU825-5UC,NU825-UC,AN825-5M,AY825-50D,AN825-10M,AY825-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 72, 195
CD22	FPC1	MU439-5UC,MU439-UC,AM439-5M,AX439-50D,AM439-10M,AX439-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 73, 195
CD227 (MUCIN 1)	VU-4H5	MU534-5UC,MU534-UC,AM534-5M,AX534-50D,AM534-10M,AX534-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 87, 195
CD23	Polyclonal	PU460-5UP,PU460-UP,AR460-5R,AW460-50D,AR460-10R,AW460-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 73, 195
CD27	Polyclonal	PU912-5UP,PU912-UP,AR912-5R,AW912-50D,AR912-10R,AW912-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 73, 195
CD29	JB1a	MU298-5UC,MU298-UC,AM298-5M,AX298-50D,AM298-10M,AX298-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 74, 195
CD3 (T cell)	UCHT1	MU258-5UC,MU258-UC,AM258-5M,AX258-50D,AM258-10M,AX258-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 66, 195
CD3 (T Cell)	PS1	MU322-5UC,MU322-UC,AM322-5M,AX322-50D,AM322-10M,AX322-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 38, 39, 40, 46, 66, 195
CD3 (T Cell)	EP41	NU846-5UC,NU846-UC,AN846-5M,AY846-50D,AN846-10M,AY846-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 66, 195
CD30 (Ki-1 Antigen)	Ber-H2	AM327-5M,AX327-50D,AM327-10M,AX327-YCD	0.5 ml, 50 test, 100 test, 200 test	18, 46, 74, 196
CD30 (Ki-1 Antigen)	HRS-4	MU351-5UC,MU351-UC,AM351-5M,AX351-50D,AM351-10M,AX351-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 46, 74, 196
CD31 (Endothelial Cell)	JC/70A	AM232-5M,AX232-50D,AM232-10M,AX232-YCD	0.5 ml, 50 test, 100 test, 200 test	18, 46, 74, 196
CD31 (PECAM-1)	9G11	MU241-5UC,MU241-UC,AM241-5M,AX241-50D,AM241-10M,AX241-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 47, 75, 196
CD34 (Endothelial Cell)	QBend/10	MU236-5UC,MU236-UC,AM236-5M,AX236-50D,AM236-10M,AX236-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 47, 75, 196
CD34 (Endothelial Cell)	EP88	NU779-5UC,NU779-UC,AN779-5M,AY779-50D,AN779-10M,AY779-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 47, 75, 196
CD35	RLB25	MU431-5UC,MU431-UC,AM431-5M,AX431-50D,AM431-10M,AX431-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 47, 76, 196



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CD35	SP191	NU741-5UC,NU741-UC,AN741-5M,AY741-50D,AN741-10M,AY741-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 47, 75, 196
CD38	SP149	NU769-5UC,NU769-UC,AN769-5M,AY769-50D,AN769-10M,AY769-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 47, 75, 196
CD4	4B12	MU421-5UC,MU421-UC,AM421-5M,AX421-50D,AM421-10M,AX421-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	18, 47, 67, 196
CD4	EP204	NU722-5UC,NU722-UC,AN722-5M,AY722-50D,AN722-10M,AY722-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 67, 196
CD40	CL1673	MU913-5UC,MU913-UC,AM913-5M,AX913-50D,AM913-10M,AX913-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 76, 196
CD41/Integrin	EP178	NU732-5UC,NU732-UC,AN732-5M,AY732-50D,AN732-10M,AY732-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 76, 196
CD43 & CD45RA Cocktail	MT1 & MB1	AM159-5M,AX159-50D,AM159-10M,AX159-YCD	0.5 ml, 50 test, 100 test, 200 test	19, 47, 77, 196
CD43 (T Cell, Leukosialin)	DFT-1	MU305-5UC,MU305-UC,AM305-5M,AX305-50D,AM305-10M,AX305-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 77, 196
CD43 (T Cell, Leukosialin)	SP55	NU748-5UC,NU748-UC,AN748-5M,AY748-50D,AN748-10M,AY748-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 77, 196
CD44 (Phagocytic Glycoprotein-1, HCAM)	DF1485	MU310-5UC,MU310-UC,AM310-5M,AX310-50D,AM310-10M,AX310-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 77, 196
CD45 (Leukocyte common Antigen, LCA)	PD7/26/16 & 2B11	AM111-5M,AX111-50D,AM111-10M,AX111-YCD	0.5 ml, 50 test, 100 test, 200 test	19, 47, 78, 196
CD45 (Leukocyte common Antigen, LCA)	LJ27.9	MU338-5UC,MU338-UC,AM338-5M,AX338-50D,AM338-10M,AX338-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 78, 196
CD45 Cocktail (Leukocyte Antigen, LCA)	MEM55+LJ27.9	MU371-5UC,MU371-UC,AM371-5M,AX371-50D,AM371-10M,AX371-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 78, 196
CD45RA (B cell)	MB1	AM157-5M,AX157-50D,AM157-10M,AX157-YCD	0.5 ml, 50 test, 100 test, 200 test	19, 47, 78, 196
CD45RB	MEM55	MU320-5UC,MU320-UC,AM320-5M,AX320-50D,AM320-10M,AX320-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 79, 196
CD45RC (T Cell)	MT2	MU156-5UC,MU156-UC,AM156-5M,AX156-50D,AM156-10M,AX156-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 79, 196
CD45RO (T Cell)	UCHL-1	MU113-5UC,MU113-UC,AM113-5M,AX113-50D,AM113-10M,AX113-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 79, 196
CD48	EP148	NU721-5UC,NU721-UC,AN721-5M,AY721-50D,AN721-10M,AY721-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 79, 196
CD5	4C7	MU430-5UC,MU430-UC,AM430-5M,AX430-50D,AM430-10M,AX430-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 67, 196
CD5	EP77	NU824-5UC,NU824-UC,AN824-5M,AY824-50D,AN824-10M,AY824-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 67, 196
CD53	EP179	NU734-5UC,NU734-UC,AN734-5M,AY734-50D,AN734-10M,AY734-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 80, 196
CD56 (Natural Killer Cell, NCAM)	NKH-1	MU268-5UC,MU268-UC,AM268-5M,AX268-50D,AM268-10M,AX268-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 80, 196
CD57 (Natural Killer Cell)	NK-1	MU314-5UC,MU314-UC,AM314-5M,AX314-50D,AM314-10M,AX314-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 80, 196
CD63	EP211	NU720-5UC,NU720-UC,AN720-5M,AY720-50D,AN720-10M,AY720-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 80,196
CD66	BY114	AM325-5M,AX325-50D,AM325-10M,AX325-YCD	0.5 ml, 50 test, 100 test, 200 test	19, 47, 81, 196
CD68	KP1	MU416-5UC,MU416-UC,AM416-5M,AX416-50D,AM416-10M,AX416-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 81, 196
CD68	CD68/G2	MU549-5UC,MU549-UC,AM549-5M,AX549-50D,AM549-10M,AX549-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 81, 196
CD7	LP15	MU702-5UC,MU702-UC,AM702-5M,AX702-50D,AM702-10M,AX702-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 68, 196
CD7	SP94	NU761-5UC,NU761-UC,AN761-5M,AY761-50D,AN761-10M,AY761-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 68, 196
CD71 (transferrin Receptor)	T9	AM269-5M,AX269-50D,AM269-10M,AX269-YCD	0.5 ml, 50 test, 100 test, 200 test	19, 47, 81, 196
CD71 (transferrin Receptor)	H68.4	MU354-5UC,MU354-UC,AM354-5M,AX354-50D,AM354-10M,AX354-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 82, 196
CD73	1D7	MU904-5UC,MU904-UC,AM904-5M,AX904-50D,AM904-10M,AX904-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	47, 82, 196



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CD74 (B cell)	LN2	MU153-5UC,MU153-UC,AM153-5M,AX153-50D,AM153-10M,AX153-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 47, 82, 196
CD79a	11E 3	MU414-5UC,MU414-UC,AM414-5M,AX414-50D,AM414-10M,AX414-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 47, 82, 196
CD79a	EP82	NU719-5UC,NU719-UC,AN719-5M,AY719-50D,AN719-10M,AY719-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 47, 83, 196
CD79a	SP18	NU767-5UC,NU767-UC,AN767-5M,AY767-50D,AN767-10M,AY767-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 47, 83, 196
CD8	T8	MU261-5UC,MU261-UC,AM261-5M,AX261-50D,AM261-10M,AX261-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 47, 69, 196
CD8	1A5	MU422-5UC,MU422-UC,AM422-5M,AX422-50D,AM422-10M,AX422-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 47, 68, 196
CD8	SP16	NU740-5UC,NU740-UC,AN740-5M,AY740-50D,AN740-10M,AY740-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 47, 68, 196
CD82	EP160	NU757-5UC,NU757-UC,AN757-5M,AY757-50D,AN757-10M,AY757-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 47, 83, 196
CD90	EP56	NU733-5UC,NU733-UC,AN733-5M,AY733-50D,AN733-10M,AY733-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 83, 197
CD95	EP208	NU742-5UC,NU742-UC,AN742-5M,AY742-50D,AN742-10M,AY742-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 84, 197
CD99	H036.1.1	MU355-5UC,MU355-UC,AM355-5M,AX355-50D,AM355-10M,AX355-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 84, 197
CD99	EP8	NU850-5UC,NU850-UC,AN850-5M,AY850-50D,AN850-10M,AY850-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 84, 197
CDK1	A17.1.1	MU905-5UC,MU905-UC,AM905-5M,AX905-50D,AM905-10M,AX905-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 48, 84, 197
CDK2	SP80	NU906-5UC,NU906-UC,AN906-5M,AY906-50D,AN906-10M,AY906-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 48, 85, 197
CDK9	K.513.1	NU908-5UC,NU908-UC,AN908-5M,AY908-50D,AN908-10M,AY908-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 48, 85, 197
CDw75 (B cell)	LN1	MU152-5UC,MU152-UC,AM152-5M,AX152-50D,AM152-10M,AX152-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 87, 197
CDX-2	CDX2-88	MU392A-5UC,MU392A-UC,AM392-5M,AX392-50D,AM392-10M,AX392-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 87, 197
CDX-2	EP25	NU777-5UC,NU777-UC,AN777-5M,AY777-50D,AN777-10M,AY777-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 88, 197
CEACAM1	Polyclonal	PU909-5UP,PU909-UP,AR909-5R,AW909-50D,AR909-10R,AW909-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	19, 48, 88, 197
c-erbB-2 (HER-2/neu)	SP101	NU752-5UC,NU752-UC,AN752-5M,AY752-50D,AN752-10M,AY752-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 48, 88, 194
c-erbB-2 (HER-2/neu)	SP3	NU753-5UC,NU753-UC,AN753-5M,AY753-50D,AN753-10M,AY753-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 48, 89, 194
c-erbB-2 (Her-2/neu)	CB11	MU134-5UC,MU134-UC,AM134-5M,AX134-50D,AM134-10M,AX134-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 48, 89, 194
c-erbB-3 (HER-3)	RTJ1/A2	MU319-5UC,MU319-UC,AM319-5M,AX319-50D,AM319-10M,AX319-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 48, 89, 194
Chromogranin A	LK2H10	MU126-5UC,MU126-UC,AM126-5M,AX126-50D,AM126-10M,AX126-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 90, 197
Chromogranin A	PHE-5	MU356-5UC,MU356-UC,AM356-5M,AX356-50D,AM356-10M,AX356-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 90, 197
CK7	OV-TL12/30	MU883-5UC,MU883-UC,AM883-5M,AX883-50D,AM883-10M,AX883-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 94, 197
c-Kit / CD117	EP10	NU818-5UC,NU818-UC,AN818-5M,AY818-50D,AN818-10M,AY818-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 48, 88, 194
Claudin-5	EP224	NU718-5UC,NU718-UC,AN718-5M,AY718-50D,AN718-10M,AY718-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 90, 197
c-myc Protein	9E10	MU318-5UC,MU318-UC,AM318-5M,AX318-50D,AM318-10M,AX318-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 48, 90, 194
Coagulation Factor XIIIa	SP196	NU755-5UC,NU755-UC,AN755-5M,AY755-50D,AN755-10M,AY755-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 90, 197
Collagen III	HWD1.1	MU167-5UC,MU167-UC,AM167-5M,AX167-50D,AM167-10M,AX167-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 91, 197
Collagen IV	COL-94	MU379-5UC,MU379-UC,AM379-5M,AX379-50D,AM379-10M,AX379-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 91, 197



Description	Clone	Cat. No	Pack Size	Page
CSF-1R	SP211	NU914-5UC,NU914-UC,AN914-5M,AY914-50D,AN914-10M,AY914-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	17, 48, 91, 197
Cyclin D1	Polyclonal	PU447-5UP,PU447-UP,AR447-5R,AW447-50D,AR447-10R,AW447-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 92, 197
Cyclin D1	EP12	NU815-5UC,NU815-UC,AN815-5M,AY815-50D,AN815-10M,AY815-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 92, 197
Cyclin E1	EP126	NU854-5UC,NU854-UC,AN854-5M,AY854-50D,AN854-10M,AY854-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 92, 197
Cytokeratin 10	DEK-10	MU201-5UC,MU201-UC,AM201-5M,AX201-50D,AM201-10M,AX201-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 95, 197
Cytokeratin 13	AE8	AM132-5M,AX132-50D,AM132-10M,AX132-YCD	0.5 ml, 50 test, 100 test, 200 test	20, 48, 95, 197
Cytokeratin 14	LL002	MU146-5UC,MU146-UC,AM146-5M,AX146-50D,AM146-10M,AX146-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 96, 197
Cytokeratin 14	EP61	NU831-5UC,NU831-UC,AN831-5M,AY831-50D,AN831-10M,AY831-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 96, 197
Cytokeratin 15	EP14	NU855-5UC,NU855-UC,AN855-5M,AY855-50D,AN855-10M,AY855-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 96, 197
Cytokeratin 17	E27	MU572-5UC,MU572-UC,AM572-5M,AX572-50D,AM572-10M,AX572-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 96, 197
Cytokeratin 18	DC-10	MU143-5UC,MU143-UC,AM143-5M,AX143-50D,AM143-10M,AX143-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 97, 197
Cytokeratin 19	RCK108	MU246-5UC,MU246-UC,AM246-5M,AX246-50D,AM246-10M,AX246-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 97, 197
Cytokeratin 20	IT-Ks20.8	MU315-5UC,MU315-UC,AM315-5M,AX315-50D,AM315-10M,AX315-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 97, 197
Cytokeratin 20	EP23	NU849-5UC,NU849-UC,AN849-5M,AY849-50D,AN849-10M,AY849-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 97, 197
Cytokeratin 4	6B10	MU705-5UC,MU705-UC,AM705-5M,AX705-50D,AM705-10M,AX705-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 93, 197
Cytokeratin 4	EP4	NU717-5UC,NU717-UC,AN717-5M,AY717-50D,AN717-10M,AY717-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 92, 197
Cytokeratin 5	EP24	NU847-5UC,NU847-UC,AN847-5M,AY847-50D,AN847-10M,AY847-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 94, 197
Cytokeratin 5	EP42	NU853-5UC,NU853-UC,AN853-5M,AY853-50D,AN853-10M,AY853-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 48, 93, 197
Cytokeratin 5 + Cytokeratin 14	EP24 + EP61	NU730-5UC,NU730-UC,AN730-5M,AY730-50D,AN730-10M,AY730-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 49, 93, 197
Cytokeratin 6	EP67	NU845-5UC,NU845-UC,AN845-5M,AY845-50D,AN845-10M,AY845-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	20, 49, 94, 197
Cytokeratin 7	OV-TL12/30	MU255-5UC,MU255-UC,AM255-5M,AX255-50D,AM255-10M,AX255-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 94, 197
Cytokeratin 7 & 8	OV-TL12/30 & C51	MU587-5UC,MU587-UC,AM587-5M,AX587-50D,AM587-10M,AX587-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 94, 197
Cytokeratin 8	C51	MU142-5UC,MU142-UC,AM142-5M,AX142-50D,AM142-10M,AX142-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 95, 197
Cytokeratin 8 & 18	5D3	MU131-5UC,MU131-UC,AM131-5M,AX131-50D,AM131-10M,AX131-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 95, 197
Cytokeratin Cocktail	AE1 & AE3	MU071-5UC,MU071-UC,AM071-5M,AX071-50D,AM071-10M,AX071-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 98, 197
Cytokeratin cocktail, broad spectrum	34βE12/C51/AE1	AM273-5M,AX273-50D,AM273-10M,AX273-YCD	0.5 ml, 50 test, 100 test, 200 test	21, 49, 98, 197
Cytokeratin cocktail, broad spectrum	LL002+DEK-10+RCK108+OV-TL12/30+C11	MU372-5UC,MU372-UC,AM372-5M,AX372-50D,AM372-10M,AX372-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 98, 197
Cytokeratin HMW (Basic)	AE3	MU133-5UC,MU133-UC,AM133-5M,AX133-50D,AM133-10M,AX133-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 99, 197
Cytokeratin, High MW	34βE12	AM291-5M,AX291-50D,AM291-10M,AX291-YCD	0.5 ml, 50 test, 100 test, 200 test	21, 49, 98, 198
Cytokeratin, Low MW	AE1	MU075-5UC,MU075-UC,AM075-5M,AX075-50D,AM075-10M,AX075-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 99, 198
Cytokeratin, Pan	Lu-5	MU181-5UC,MU181-UC,AM181-5M,AX181-50D,AM181-10M,AX181-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 99, 198



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Cytokeratin, Pan	C11	MU357-5UC,MU357-UC,AM357-5M,AX357-50D,AM357-10M,AX357-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	49, 99, 198
Cytomegalovirus (CMV)	BM204	MU254-5UC,MU254-UC,AM254-5M,AX254-50D,AM254-10M,AX254-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	49, 100, 198
Cytoteratin 5&6	EP24 & EP67	AN892-5M,AY892-50D,AN892-10M,AY892-YCD	0.5 ml, 50 test, 100 test, 200 test	49, 93, 198
D				
Desmin	D33	MU072-5UC,MU072-UC,AM072-5M,AX072-50D,AM072-10M,AX072-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 100, 198
DOG1	1.1	MU570-5UC,MU570-UC,AM570-5M,AX570-50D,AM570-10M,AX570-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 100, 198
Dystrophin	Dys1 (Dy4/6D3)	AM243-5M,AX243-50D,AM243-10M,AX243-YCD	0.5 ml, 50 test, 100 test, 200 test	21, 49, 100, 198
Dystrophin	Dys2 (Dy8/6C5)	AM244-5M,AX244-50D,AM244-10M,AX244-YCD	0.5 ml, 50 test, 100 test, 200 test	21, 49, 101, 198
E				
E-Cadherin	36	MU390-5UC,MU390-UC,AM390-5M,AX390-50D,AM390-10M,AX390-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 101, 198
E-Cadherin	EP6	NU725-5UC,NU725-UC,AN725-5M,AY725-50D,AN725-10M,AY725-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 101, 198
EGFR	Polyclonal	PU335-5UP,PU335-UP,AR335-5R,AW335-50D,AR335-10R,AW335-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 102, 198
EGFR	EP22	NU781-5UC,NU781-UC,AN781-5M,AY781-50D,AN781-10M,AY781-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 101, 198
Ep-CAM	EP155	NU820-5UC,NU820-UC,AN820-5M,AY820-50D,AN820-10M,AY820-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 102, 198
Epithelial Membrane Antigen (EMA)	E29	MU057-5UC,MU057-UC,AM057-5M,AX057-50D,AM057-10M,AX057-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 102, 198
Epithelial Membrane Antigen (EMA)	Mc5	MU182-5UC,MU182-UC,AM182-5M,AX182-50D,AM182-10M,AX182-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 102, 198
Epithelial-Specific Antigen	MOC-31	MU316-5UC,MU316-UC,AM316-5M,AX316-50D,AM316-10M,AX316-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 103, 198
Epstein-Barr Virus (EBV) Early Antigen	1108-1	MU222-5UC,MU222-UC,AM222-5M,AX222-50D,AM222-10M,AX222-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 103, 198
ERG, Ets-Related Gene	EP111	NU782-5UC,NU782-UC,AN782-5M,AY782-50D,AN782-10M,AY782-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 103, 198
Estradiol	Polyclonal	AR038-5R,AW038-50D,AR038-10R,AW038-YCD	0.5 ml, 50 test, 100 test, 200 test	21, 49, 103, 198
Estrogen Recepto (ER) Beta	Polyclonal	PU385-5UP,PU385-UP,AR385-5R,AW385-50D,AR385-10R,AW385-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 104, 198
Estrogen Receptor (ER) Alpha	EP1	NU710-5UC,NU710-UC,AN710-5M,AY710-50D,AN710-10M,AY710-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	49, 104, 198
Estrogen Receptor, ER (InSite®)	ER88	MU368-5UC,MU368-UC,AM368-5M,AX368-50D,AM368-10M,AX368-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 104, 198
F				
Factor VIII-Related Antigen	F8 2.2.9	MU016-5UC,MU016-UC,AM016-5M,AX016-50D,AM016-10M,AX016-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	21, 49, 104, 198
Factor XIIIa	E980.1	MU337-5UC,MU337-UC,AM337-5M,AX337-50D,AM337-10M,AX337-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 49, 105, 198
Fascin	FCN01	MU488-5UC,MU488-UC,AM488-5M,AX488-50D,AM488-10M,AX488-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 49, 105, 198
FLI1	Polyclonal	PU798-5UP,PU798-UP,AR798-5R,AW798-50D,AR798-10R,AW798-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 49, 105, 198
Follicle Stimulating Hormone (FSH)	Polyclonal	PU766-5UP,PU766-UP,AR766-5R,AW766-50D,AR766-10R,AW766-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 49, 105, 198
Gastrin	Polyclonal	PU019-5UP,PU019-UP,AR019-5R,AW019-50D,AR019-10R,AW019-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 49, 106, 198
GCDFP-15	EP95	NU856-5UC,NU856-UC,AN856-5M,AY856-50D,AN856-10M,AY856-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 49, 106, 198
GITR	Polyclonal	PU915-5UP,PU915-UP,AR915-5R,AW915-50D,AR915-10R,AW915-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 106, 198



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Glial Fibrillary Acidic Protein (GFAP)	GA-5	MU020-5UC,MU020-UC,AM020-5M,AX020-50D,AM020-10M,AX020-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 107, 198
Glial Fibrillary Acidic Protein (GFAP)	Polyclonal	PU020-5UP,PU020-UP,AR020-5R,AW020-50D,AR020-10R,AW020-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 107, 198
Glial Fibrillary Acidic Protein (GFAP)	EP13	NU783-5UC,NU783-UC,AN783-5M,AY783-50D,AN783-10M,AY783-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 106, 198
Glomerular Epithelial Protein 1 (GLEPP-1)	5C11	MU336-5UC,MU336-UC,AM336-5M,AX336-50D,AM336-10M,AX336-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 107, 198
Glucagon	Polyclonal	PU039-5UP,PU039-UP,AR039-5R,AW039-50D,AR039-10R,AW039-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 107, 198
GLUT-1	SPM498	MU505-5UC,MU505-UC,AM505-5M,AX505-50D,AM505-10M,AX505-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 108, 198
Glutathione S-Transferase Pi (GST Pi)	Polyclonal	PU249-5UP,PU249-UP,AR249-5R,AW249-50D,AR249-10R,AW249-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 108, 198
Glycophorin A + B	E3	MU889-5UC,MU889-UC,AM889-5M,AX889-50D,AM889-10M,AX889-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 108, 198
Glypican-3 (GPC3)	GPC3-88	MU539-5UC,MU539-UC,AM539-5M,AX539-50D,AM539-10M,AX539-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 108, 198
Gomori's Trichrome Blue Stain Kit	-	SS033,SS033-50X	50 test, 50 test	177, 181
Gomori's Trichrome Green Stain Kit	-	SS034,SS034-50X	50 test, 50 test	177, 181
Gram Stain Kit	-	SS015,SS037-50X	50 test, 50 test	178, 181
Granulocyte	BM-2	MU210-5UC,MU210-UC,AM210-5M,AX210-50D,AM210-10M,AX210-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 109, 198
H				
H & E Retrieval Solution (10X)	-	HK169-5K	100 ml	38
H.Pylori	ULC3R	MU880-5UC,AM880-UC,AM880-5M,AX880-50D,AM880-10M,AX880-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 110, 198
Has-miR-106a Probe	-	HM106A-100	0.650 ml	162
Has-miR-10b Probe	-	HM010B-100	0.650 ml	162
Has-miR-125b Probe	-	HM125B-100	0.650 ml	162
Has-miR-126 Probe	-	HM126-100	0.650 ml	162
Has-miR-1285 Probe	-	HM1285-100	0.650 ml	162
Has-miR-141 Probe	-	HM141-100	0.650 ml	162
Has-miR-144 Probe	-	HM144-100	0.650 ml	162
Has-miR-147b Probe	-	HM147B-100	0.650 ml	162
Has-miR-151a-3p Probe	-	HM151A-3P-100	0.650 ml	162
Has-miR-152 Probe	-	HM152-100	0.650 ml	162
Has-miR-17 Probe	-	HM017-100	0.650 ml	162
Has-miR-196a Probe	-	HM196A-100	0.650 ml	162
Has-miR-200a Probe	-	HM200A-100	0.650 ml	162
Has-miR-200b Probe	-	HM200B-100	0.650 ml	162
Has-miR-204 Probe	-	HM204-100	0.650 ml	162
Has-miR-205 Probe	-	HM205-100	0.650 ml	162
Has-miR-216a Probe	-	HM216A-100	0.650 ml	162
Has-miR-375 Probe	-	HM375-100	0.650 ml	162
Has-miR-7a Probe	-	HM007A-100	0.650 ml	162
Heat Shock Protein 27 (HSP 27)	G3.1	MU171-5UC,MU171-UC,AM171-5M,AX171-50D,AM171-10M,AX171-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 109, 198
Heat Shock Protein 70 (HSP 70)	BRM-22	MU289-5UC,MU289-UC,AM289-5M,AX289-50D,AM289-10M,AX289-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 109, 198
Hematoxylin	-	HK100-5K, HK100-9K	6ml, 250ml	187
Hemoglobin A	Polyclonal	AR021-5R,AW021-50D,AR021-10R,AW021-YCD	0.5 ml, 50 test, 100 test, 200 test	22, 50, 110, 198
Hepatitis B Virus Core Antigen (HBcAg)	Polyclonal	PU082-5UP,PU082-UP,AR082-5R,AW082-50D,AR082-10R,AW082-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 110, 199
Her2/ErbB2	EP3	NU726-5UC,NU726-UC,AN726-5M,AY726-50D,AN726-10M,AY726-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 89, 199



Description	Clone	Cat. No	Pack Size	Page
Herpes Simplex Virus Type I (HSV I)	Polyclonal	PU084-5UP,PU084-UP,AR084-5R,AW084-5OD,AR084-10R,AW084-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 110, 199
Herpes Simplex Virus Type II (HSV II)	Polyclonal	PU085-5UP,PU085-UP,AR085-5R,AW085-5OD,AR085-10R,AW085-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 111, 199
HLA-DR	LN3	MU154-5UC,MU154-UC,AM154-5M,AX154-5OD,AM154-10M,AX154-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 111, 199
HPV 14 Probe	-	PR251-YAD, PR251-100	25 test, 0.650 ml	158, 160
Hpv 16/18 Probe	-	PR250-YAD,PR250-100	25 test, 0.650 ml	160
HSA	HSA/E8	MU550-5UC,MU550-UC,AM550-5M,AX550-5OD,AM550-10M,AX550-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 111, 199
Hsa-miR-1 Probe	-	HM001-100	0.650 ml	161, 162
Hsa-miR-100 Probe	-	HM100-100	0.650 ml	162
Hsa-miR-101-3p probe	-	HM101-3P-100	0.650 ml	162
Hsa-miR-107 Probe	-	HM107-100	0.650 ml	162
Hsa-miR-1181 probe	-	HM1181-100	0.650 ml	162
Hsa-miR-122 Probe	-	HM122-100	0.650 ml	163
Hsa-miR-124 Probe	-	HM124-100	0.650 ml	162
Hsa-miR-1244-1 Probe	-	HM1244-1-100	0.650 ml	163
Hsa-miR-1247 Probe	-	HM1247-100	0.718 ml	162
Hsa-miR-125A Probe	-	HM125A-100	0.650 ml	162
Hsa-miR-127-3P Probe	-	HM127-3P-100	0.650 ml	162
Hsa-miR-128 Probe	-	HM128-100	0.650 ml	163
Hsa-miR-1297 probe	-	HM1297-100	0.650 ml	163
Hsa-miR-133A Probe	-	HM133A-100	0.650 ml	162
Hsa-miR-133B Probe	-	HM133B-100	0.650 ml	162
Hsa-miR-135A Probe	-	HM135A-100	0.650 ml	162
Hsa-miR-135B Probe	-	HM135B-100	0.650 ml	162
Hsa-miR-138 probe	-	HM138-100	0.650 ml	163
Hsa-miR-139 Probe	-	HM139-100	0.650 ml	163
Hsa-miR-140 probe	-	HM140-100	0.650 ml	163
Hsa-miR-142-3P Probe	-	HM142-3P-100	0.650 ml	162
Hsa-miR-143 probe	-	HM143-100	0.650 ml	162
Hsa-miR-146a Probe	-	HM146A-100	0.650 ml	162
Hsa-miR-146B probe	-	HM146B-100	0.650 ml	162
Hsa-miR-148A Probe	-	HM148A-100	0.650 ml	162
Hsa-miR-148B Probe	-	HM148B-100	0.650 ml	162
Hsa-miR-149 probe	-	HM149-100	0.650 ml	162
Hsa-miR-150 Probe	-	HM150-100	0.650 ml	162
Hsa-miR-153 probe	-	HM153-100	0.650 ml	162
Hsa-miR-155 Probe	-	HM155-100	0.650 ml	161, 162
Hsa-miR-15a Probe	-	HM015A-100	0.650 ml	162
Hsa-miR-15B Probe	-	HM015B-100	0.650 ml	162
Hsa-miR-17-3p probe	-	HM017-3P-100	0.650 ml	162
Hsa-miR-181A Probe	-	HM181A-100	0.650 ml	162
Hsa-miR-181B Probe	-	HM181B-100	0.650 ml	162
Hsa-miR-181C Probe	-	HM181C-100	0.650 ml	162
Hsa-miR-182 probe	-	HM182-100	0.650 ml	162
Hsa-miR-1826 Probe	-	HM1826-100	0.650 ml	162
Hsa-miR-185 probe	-	HM185-100	0.650 ml	163
Hsa-miR-186 probe	-	HM186-100	0.650 ml	163
Hsa-miR-187 Probe	-	HM187-100	0.650 ml	162
Hsa-miR-18a probe	-	HM018A-100	0.650 ml	162
Hsa-miR-190a Probe	-	HM190a-100	0.650 ml	163



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Hsa-miR-190b Probe		HM190b-100	0.650 ml	163
Hsa-miR-191 Probe	-	HM191-100	0.650 ml	162
Hsa-miR-192 Probe	-	HM192-100	0.650 ml	162
Hsa-miR-193A-3P probe	-	HM193A-3P-100	0.650 ml	163
Hsa-miR-193b Probe		HM193b-100	0.650 ml	163
Hsa-miR-194 Probe	-	HM194-100	0.650 ml	162
Hsa-miR-195 Probe	-	HM195-100	0.650 ml	162
Hsa-miR-197 probe	-	HM197-100	0.650 ml	163
Hsa-miR-199a probe	-	HM199A-100	0.650 ml	162
Hsa-miR-19a probe	-	HM019A-100	0.650 ml	162
Hsa-miR-19b-3p probe	-	HM019B-3P-100	0.650 ml	162
Hsa-miR-200C probe	-	HM200C-100	0.650 ml	162
Hsa-miR-203A probe	-	HM203A-3P-100	0.650 ml	162
Hsa-miR-206 Probe	-	HM206-100	0.650 ml	162
Hsa-miR-20A Probe	-	HM020A-100	0.650 ml	162
Hsa-miR-21 Probe	-	HM021-100	0.650 ml	162
Hsa-miR-210 Probe	-	HM210-100	0.650 ml	162
Hsa-miR-212 Probe	-	HM212-100	0.650 ml	162
Hsa-miR-21-3p probe	-	HM021-3P-100	0.650 ml	162
Hsa-miR-214 Probe	-	HM214-100	0.650 ml	162
Hsa-miR-215 Probe	-	HM215-100	0.650 ml	162
Hsa-miR-217 probe	-	HM217-100	0.650 ml	163
Hsa-miR-218 probe	-	HM218-100	0.650 ml	162
Hsa-miR-22 Probe	-	HM022-100	0.650 ml	162
Hsa-miR-221-3p probe	-	HM221-3P-100	0.650 ml	162
Hsa-miR-222 Probe	-	HM222-100	0.650 ml	161, 162
Hsa-miR-223 probe	-	HM223-100	0.650 ml	163
Hsa-miR-224 Probe	-	HM224-100	0.650 ml	162
Hsa-miR-23b probe	-	HM023B-100	0.650 ml	162
Hsa-miR-24-3P probe	-	HM024-3P-100	0.650 ml	162
Hsa-miR-25 probe	-	HM025-100	0.650 ml	162
Hsa-miR-26A Probe	-	HM026A-100	0.650 ml	162
Hsa-miR-26B Probe	-	HM026B-100	0.650 ml	162
Hsa-miR-27A probe	-	HM027A-100	0.650 ml	162
Hsa-miR-27b probe	-	HM027B-100	0.650 ml	162
Hsa-miR-28-3P Probe	-	HM028-3P-100	0.650 ml	162
Hsa-miR-28-5P Probe	-	HM028-5P-100	0.650 ml	162
Hsa-miR-297 probe	-	HM297-100	0.650 ml	162
Hsa-miR-29C probe	-	HM029C-100	0.650 ml	162
Hsa-miR-302b Probe		HM302b-100	0.650 ml	163
Hsa-miR-30B Probe	-	HM030B-100	0.650 ml	162
Hsa-miR-30C probe	-	HM030C-100	0.650 ml	162
Hsa-miR-30E probe	-	HM030E-100	0.650 ml	162
Hsa-miR-31 Probe	-	HM031-100	0.650 ml	162
Hsa-miR-326 Probe		HM326-100	0.650 ml	163
Hsa-miR-328 Probe	-	HM328-100	0.650 ml	162
Hsa-miR-329 Probe	-	HM329-100	0.650 ml	162
Hsa-miR-331-3p probe	-	HM331-3P-100	0.650 ml	162
Hsa-miR-335 probe	-	HM335-100	0.650 ml	162
Hsa-miR-34A Probe	-	HM034A-100	0.650 ml	162
Hsa-miR-361 Probe	-	HM361-100	0.650 ml	162
Hsa-miR-362 Probe	-	HM362-100	0.650 ml	162



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Hsa-miR-365A-3P probe	-	HM365A-3P-100	0.650 ml	162
Hsa-miR-373 Probe	-	HM373-100	0.650 ml	162
Hsa-miR-378A probe	-	HM378A-100	0.650 ml	162
Hsa-miR-378a Probe		HM378a-100	0.650 ml	162
Hsa-miR-381 probe	-	HM381-100	0.650 ml	163
Hsa-miR-382 Probe		HM382-100	0.650 ml	163
Hsa-miR-383 probe	-	HM383-100	0.650 ml	162
Hsa-miR-384 Probe		HM384-100	0.650 ml	163
Hsa-miR-3978 Probe		HM3978-100	0.650 ml	163
Hsa-miR-409-3P Probe	-	HM409-3P-100	0.650 ml	162
Hsa-miR-410 Probe	-	HM410-100	0.650 ml	162
Hsa-miR-412 Probe	-	HM412-100	0.650 ml	162
Hsa-miR-422A probe	-	HM422A-100	0.650 ml	162
Hsa-miR-423-3p probe	-	HM423-3P-100	0.650 ml	162
Hsa-miR-424 Probe	-	HM424-100	0.650 ml	162
Hsa-miR-429 Probe	-	HM429-100	0.650 ml	162
Hsa-miR-433 Probe		HM433-100	0.650 ml	163
Hsa-miR-449A Probe	-	HM449A-100	0.650 ml	162
Hsa-miR-451 Probe	-	HM451-100	0.650 ml	162
Hsa-miR-483 probe	-	HM483-100	0.650 ml	162
Hsa-miR-486 Probe	-	HM486-100	0.650 ml	162
Hsa-miR-489 Probe		HM489-100	0.650 ml	163
Hsa-miR-491 Probe		HM491-100	0.650 ml	163
Hsa-miR-494 Probe	-	HM494-100	0.650 ml	162
Hsa-miR-497 Probe	-	HM497-100	0.650 ml	162
Hsa-miR-498 Probe		HM498-100	0.650 ml	163
Hsa-miR-505 probe	-	HM505-100	0.650 ml	162
Hsa-miR-514a Probe		HM514a-100	0.650 ml	163
Hsa-miR-524 Probe		HM524-100	0.650 ml	163
Hsa-miR-544 Probe	-	HM544-100	0.650 ml	162
Hsa-miR-545-5P probe	-	HM545-5P-100	0.650 ml	162
Hsa-miR-590 Probe	-	HM590-100	0.650 ml	162
Hsa-miR-610 probe	-	HM610-100	0.650 ml	162
Hsa-miR-615 probe	-	HM615-100	0.650 ml	162
Hsa-miR-622 Probe	-	HM622-100	0.650 ml	162
Hsa-miR-625 Probe	-	HM625-100	0.650 ml	162
Hsa-miR-627 probe	-	HM627-100	0.650 ml	162
Hsa-miR-628 Probe	-	HM628-100	0.650 ml	162
Hsa-miR-629 probe	-	HM629-100	0.650 ml	162
Hsa-miR-630 probe	-	HM630-100	0.650 ml	162
Hsa-miR-641 probe	-	HM641-100	0.650 ml	162
Hsa-miR-648 Probe	-	HM648-100	0.650 ml	162
Hsa-miR-650 Probe	-	HMO650-100	0.650 ml	162
Hsa-miR-663A Probe	-	HM663A-100	0.650 ml	162
Hsa-miR-675 Probe		HM675-100	0.650 ml	163
Hsa-miR-708 probe	-	HM708-100	0.650 ml	162
Hsa-miR-718 Probe	-	HM718-100	0.650 ml	162
Hsa-miR-766 Probe		HM766-100	0.650 ml	163
Hsa-miR-7e probe	-	HM007E-100	0.650 ml	162
Hsa-miR-802 probe	-	HM802-100	0.650 ml	163
Hsa-miR-9 probe	-	HM009-100	0.650 ml	162
Hsa-miR-92A Probe	-	HM092A-100	0.650 ml	162



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Hsa-miR-95 Probe	-	HM095-100	0.650 ml	162
Hsa-miR-9500 probe	-	HM9500-100	0.650 ml	162
Hsa-miR-96 probe	-	HM096-100	0.650 ml	162
Hsa-miR-98 probe	-	HM098-100	0.650 ml	162
Hsa-miR-99A Probe	-	HM099A-100	0.650 ml	162
Hsa-miR-99B Probe	-	HM099B-100	0.650 ml	162
Hsa-miR-let-7b Probe	-	HM007B-100	0.650 ml	162
Hsa-miR-Let-7c probe	-	HM007C-100	0.650 ml	162
Hsa-miR-let-7d Probe	-	HM007D-100	0.650 ml	162
Hsa-miR-let-7g Probe	-	HM007G-100	0.650 ml	162
Human Chorionic Gonadotropin (hCG) Beta	M94138	MU395-5UC,MU395-UC,AM395-5M,AX395-50D,AM395-10M,AX395-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 111, 199
human Growth Hormon (hGH)	Polyclonal	PU707-5UP,PU707-UP,AR707-5R,AW707-50D,AR707-10R,AW707-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 50, 109, 199
I				
i500 S Bar Code Labeling System	-	BLS500	1 Unit	33
i6000 Diagnostic	-	AS6030	2 Unit	16
i6000 Infinity	-	AS6040	3 Unit	16
i6000 Pipette Tips (192 tips)	-	XT105-01X	192 tips	30, 32, 91
i6000 Pipette Tips (960 tips)	-	XT104-05X	960 tips	29, 32, 92
i6000TM Elite Dx	-	AS6030		16
i6000TM Elite Rx	-	AS6040		16
IDO	4D2	MU916-5UC,MU916-UC,AM916-5M,AX916-50D,AM916-10M,AX916-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	50, 112, 199
IgA	Polyclonal	PU045-5UP,PU045-UP,AR045-5R,AWO45-50D,ARO45-10R,AWO45-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 112, 199
IgD	Polyclonal	PU440-5UP,PU440-UP,AR440-5R,AW440-50D,AR440-10R,AW440-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 112, 199
IgG	Polyclonal	PU050-5UP,PU050-UP,AR050-5R,AWO50-50D,ARO50-10R,AWO50-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 113, 199
IgG	IgG88	MU367-5UC,MU367-UC,AM367-5M,AX367-50D,AM367-10M,AX367-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 112, 199
IgM	IgM88	MU366-5UC,MU366-UC,AM366-5M,AX366-50D,AM366-10M,AX366-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 113, 199
IgM	Polyclonal	PU427-5UP,PU427-UP,AR427-5R,AW427-50D,AR427-10R,AW427-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 113, 199
Inhibin-Alpha	R1	MU446-5UC,MU446-UC,AM446-5M,AX446-50D,AM446-10M,AX446-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 113, 199
INS probe	-	PR286-YAD,PR286-100	25 test, 0.650 ml	160
Insulin	HB125	MU029-5UC,MU029-UC,AM029-5M,AX029-50D,AM029-10M,AX029-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 114, 199
Insulin	EP125	NU735-5UC,NU735-UC,AN735-5M,AY735-50D,AN735-10M,AY735-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 114, 199
Iron Stain Kit	-	SS010,SS030-50X	50 test, 50 test	178, 181
ISH Consumable Kit, for Xmatrx	-	XT144-YAD	100 slides	29, 191
J				
J chain	JC88	MU374-5UC,MU374-UC,AM374-5M,AX374-50D,AM374-10M,AX374-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 114, 199
J chain	SP105	NU756-5UC,NU756-UC,AN756-5M,AY756-50D,AN756-10M,AY756-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 114, 199
JAK2 probe	-	PR264-YAD,PR264-100	25 test, 0.650 ml	160
Jones Basement Membrane Stain Kit*	-	SS058-50X	50 test	178, 181
K				
Kappa Light Chain	L1C1	MU048-5UC,MU048-UC,AM048-5M,AX048-50D,AM048-10M,AX048-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 115, 199



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Kappa Light Chain	K88	MU369-5UC,MU369-UC,AM369-5M,AX369-50D,AM369-10M,AX369-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 115, 199
Kappa Probe	-	PR214-YAD,PR214-100	25 test, 0.650 ml	28, 158, 160
Ki-67	MIB-1	MU297-5UC,MU297-UC,AM297-5M,AX297-50D,AM297-10M,AX297-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 115, 199
Ki-67	Ki88	MU370-5UC,MU370-UC,AM370-5M,AX370-50D,AM370-10M,AX370-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 50, 116, 199
Ki-67	K-2	MU410-5UC,MU410-UC,AM410-5M,AX410-50D,AM410-10M,AX410-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 115, 199
Ki-67 + Lambda Light Chain	K-2 + Polyclonal	AC562-5M,AC562-50D,AC562-10M,AC562-YCD	0.5 ml, 50 test, 100 test, 200 test	23, 154, 199
KLF2 probe	-	PR280-YAD,PR280-100	25 test, 0.650 ml	160
KRAS	Polyclonal	PU751-5UP,PU751-UP,AR751-5R,AW751-50D,AR751-10R,AW751-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 116, 199
KRAS probe	-	PR291-YAD,PR291-100	25 test, 0.650 ml	160
L				
LAG3	Polyclonal	PU917-5UP,PU917-UP,AR917-5R,AW917-50D,AR917-10R,AW917-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	51, 116, 199
Lambda Light Chain	Polyclonal	PU049-5UP,PU049-UP,AR049-5R,AW049-50D,AR049-10R,AW049-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 116, 199
Lambda light chain	EP172	NU715-5UC,NU715-UC,AN715-5M,AY715-50D,AN715-10M,AY715-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 117, 199
Lambda Light Chain	SP147	NU763-5UC,NU763-UC,AN763-5M,AY763-50D,AN763-10M,AY763-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 117, 199
Lambda Probe	-	PR215-YAD,PR215-100	25 test, 0.650 ml	28, 159, 160
Laminin	Polyclonal	PU078-5UP,PU078-UP,AR078-5R,AW078-50D,AR078-10R,AW078-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 117, 199
Link Diluent	-	HK165-5K	100 ml	184
Luteinizing Hormone (LH)	SP132	NU787-5UC,NU787-UC,AN787-5M,AY787-50D,AN787-10M,AY787-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 117, 199
Lysozyme	Polyclonal	PU024-5UP,PU024-UP,AR024-5R,AW024-50D,AR024-10R,AW024-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 118, 199
M				
Macrophage	LN5	MU165-5UC,MU165-UC,AM165-5M,AX165-50D,AM165-10M,AX165-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 118, 199
Masson's Trichrome Stain Kit	-	SS008,SS035-50X	50 test, 50 test	178, 181
Mast Cell Tryptase	AA1	MU419-5UC,MU419-UC,AM419-5M,AX419-50D,AM419-10M,AX419-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 118, 199
MCM2	SP85	NU773-5UC,NU773-UC,AN773-5M,AY773-50D,AN773-10M,AY773-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 118, 199
MCM2	EP40	NU834-5UC,NU834-UC,AN834-5M,AY834-50D,AN834-10M,AY834-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 119, 199
Melan-A (MART-1)	A103	MU361-5UC,MU361-UC,AM361-5M,AX361-50D,AM361-10M,AX361-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 119, 199
Melanoma	HMB45	MU001A-5UC,MU001A-UC,AM001-5M,AX001-50D,AM001-10M,AX001-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 119, 199
Melanoma gp100	gp100/D5	MU536-5UC,MU536-UC,AM536-5M,AX536-50D,AM536-10M,AX536-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 119, 199
Melanoma-Associated Antigen	NK1/C3	MU077-5UC,MU077-UC,AM077-5M,AX077-50D,AM077-10M,AX077-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 120, 199
Mesothelin	5B2	MU433-5UC,MU433-UC,AM433-5M,AX433-50D,AM433-10M,AX433-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 120, 199
Microwave AR Accessory Kit	-	MW001-HB	3 Units	191
Microwave AR Accessory Kit	-	MW001-SU	1 Unit	191
MiTF	MiTF/A13	MU554-5UC,MU554-UC,AM554-5M,AX554-50D,AM554-10M,AX554-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 120, 199
Mitochondrial Antigen	113-1	MU213-5UC,MU213-UC,AM213-5M,AX213-50D,AM213-10M,AX213-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 120, 199
MLH1	ES05	MU703-5UC,MU703-UC,AM703-5M,AX703-50D,AM703-10M,AX703-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 121, 199



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MMP-9	EP127	NU816-5UC,NU816-UC,AN816-5M,AY816-50D,AN816-10M,AY816-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	23, 51, 121, 200
MPO probe	-	PR272-YAD,PR272-100	25 test, 0.650 ml	160
MRC1 probe	-	PR273-YAD,PR273-100	25 test, 0.650 ml	160
MSH2	SP46	NU743-5UC,NU743-UC,AN743-5M,AY743-50D,AN743-10M,AY743-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 121, 200
MSH2	RED2	NU744-5UC,NU744-UC,AN744-5M,AY744-50D,AN744-10M,AY744-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 122, 200
MSH6	2D4B5	MU454-5UC,MU454-UC,AM454-5M,AX454-50D,AM454-10M,AX454-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 122, 200
MUC4	1G8	MU455-5UC,MU455-UC,AM455-5M,AX455-50D,AM455-10M,AX455-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 122, 200
MUC5AC	45M1	MU456-5UC,MU456-UC,AM456-5M,AX456-50D,AM456-10M,AX456-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 122, 200
Mucicarmine Stain Kit	-	SS006,SS036-50X	50 test, 50 test	178, 181
Mucin 1 (MUC1)	EP85	NU813-5UC,NU813-UC,AN813-5M,AY813-50D,AN813-10M,AY813-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 121, 200
Mucin 2 (MUC2)	CCP58	MU358-5UC,MU358-UC,AM358-5M,AX358-50D,AM358-10M,AX358-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 123, 200
Multi-Drug Resistance Marker (P-Glycoprotein)	MDR88	MU391-5UC,MU391-UC,AM391-5M,AX391-50D,AM391-10M,AX391-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 123, 200
MultiLink + HRP label	-	QP300-XAKE	1000 tests	150
Mum/IRF4	SP114	NU750-5UC,NU750-UC,AN750-5M,AY750-50D,AN750-10M,AY750-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 123, 200
Muscle Actins	Actin 88 Cocktail	MU381-5UC,MU381-UC,AM381-5M,AX381-50D,AM381-10M,AX381-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 123, 200
MYC probe	-	PR265-YAD,PR265-100	25 test, 0.650 ml	160
Myelin Basic Protein	MBP88	AM380-5M,AX380-50D,AM380-10M,AX380-YCD	0.5 ml, 50 test, 100 test, 200 test	24, 51, 124, 200
Myeloid Specific Antigen	BM-1	MU164-5UC,MU164-UC,AM164-5M,AX164-50D,AM164-10M,AX164-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 124, 200
Myeloid Specific Antigen	BM-3	AM216-5M,AX216-50D,AM216-10M,AX216-YCD	0.5 ml, 50 test, 100 test, 200 test	24, 51, 124, 200
Myeloperoxidase (MPO)	Polyclonal	PU496-5UP,PU496-UP,AR496-5R,AW496-50D,AR496-10R,AW496-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 124, 200
Myf4	LO26	MU432-5UC,MU432-UC,AM432-5M,AX432-50D,AM432-10M,AX432-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 125, 200
Myogenin	EP162	NU789-5UC,NU789-UC,AN789-5M,AY789-50D,AN789-10M,AY789-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 125, 200
Myoglobin	MG-1	MU012-5UC,MU012-UC,AM012-5M,AX012-50D,AM012-10M,AX012-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 125, 200
Myoglobin	Polyclonal	PU012-5UP,PU012-UP,AR012-5R,AW012-50D,AR012-10R,AW012-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 125, 200
Myosin Heavy Chain, Smooth Muscle	SMMS.1	MU331-5UC,MU331-UC,AM331-5M,AX331-50D,AM331-10M,AX331-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 126, 200
Myosin, Skeletal Muscle	MY-32	MU109-5UC,MU109-UC,AM109-5M,AX109-50D,AM109-10M,AX109-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 51, 126, 200
N				
Napsin A	IP64	MU701-5UC,MU701-UC,AM701-5M,AX701-50D,AM701-10M,AX701-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 126, 200
Neurofilament	NE-14	MU073-5UC,MU073-UC,AM073-5M,AX073-50D,AM073-10M,AX073-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 126, 200
Neuron Specific Enolase (NSE)	MIG-N3	MU055-5UC,MU055-UC,AM055-5M,AX055-50D,AM055-10M,AX055-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 127, 200
New Fuchsin Substrate Pack	-	HK183-5KE	400 Slides	151
NGF Receptor	EP31	NU738-5UC,NU738-UC,AN738-5M,AY738-50D,AN738-10M,AY738-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 127, 200
Nordic Ware Pressure Cooker	-	NW001-PC	1 each	42, 191
Nucleic Acid Retrieval (NAR1), RTU	-	HK873-5K	250 ml	164, 172



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O				
Oct-2	EP115	NU830-5UC,NU830-UC,AN830-5M,AY830-50D,AN830-10M,AY830-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 127, 200
Oct-4	EP143	NU724-5UC,NU724-UC,AN724-5M,AY724-50D,AN724-10M,AY724-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 128, 200
Oil Red O Stain	-	SS021,SS043-50X	50 test, 50 test	179, 181
Oligo d(T) Probe	-	PR217-YAD,PR217-100	25 test, 0.650 ml	159, 160
One-Step Polymer-HRP	-	QD620-YIKE	500 Slides	150
One-Step Polymer-HRP	-	QD630-XAKE	1000 Slides	150
Optimiser Reagent Vial (20mL)	-	XT026-601 to XT026-899, XT026-601P to XT026-750P	1 each	31, 188, 189
Optimiser Reagent Vial (20mL)	-	XT026-PR601 to XT026-PR615	1 each	31
Optimiser Reagent Vial (20mL)	-	XT026-V24	24/pk	31, 188
Optimiser Reagent Vials, 20mL	-	XT101-24X	24 pack	29, 31, 188
Optimiser Vial Holders (24)	-	XT027-H24	24/pk	31, 189
OptiPlus Barrier Slides, 2/3 Test Area	-	XT013-CL, XT013-SL	1440 Slides, 72 Slides	32, 190
OptiPlus Barrier Slides, 3 X 1/3 Test Area,20 Boxes	-	XT014-CL, XT014-SL	1440 Slides, 72 Slides	32, 190
OptiPlus Microscope Slides	-	XT002-CL, XT002-SL	1440 Slides, 72 Slides	190
Osteonectin	OST1	MU387-5UC,MU387-UC,AM387-5M,AX387-50D,AM387-10M,AX387-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 128, 200
P				
p105 PANA	2B3	MU317-5UC,MU317-UC,AM317-5M,AX317-50D,AM317-10M,AX317-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 128, 200
p120 (Catenin delta 1)	SP63	NU760-5UC,NU760-UC,AN760-5M,AY760-50D,AN760-10M,AY760-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 129, 200
p16 (INK4a)	G175-405	MU540-5UC,MU540-UC,AM540-5M,AX540-50D,AM540-10M,AX540-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 128, 200
p16 + Ki67	G175-405 + EPR3611	AC601-5M,AC601-50D,AC601-10M,AC601-YCD	0.5 ml, 50 test, 100 test, 200 test	24, 52, 154, 200
p21/WAF1	4D10	MU434-5UC,MU434-UC,AM434-5M,AX434-50D,AM434-10M,AX434-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 129, 200
p27 (Kip1)	DCS72	MU396-5UC,MU396-UC,AM396-5M,AX396-50D,AM396-10M,AX396-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 129, 200
p27 (Kip1)	EP104	NU817-5UC,NU817-UC,AN817-5M,AY817-50D,AN817-10M,AY817-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	24, 52, 129, 200
p34 (cdc2 Cyclin Dependent Kinase)	POH-1	MU301-5UC,MU301-UC,AM301-5M,AX301-50D,AM301-10M,AX301-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 130, 200
P504S (AMACR)	13H4	NU449-5UC,NU449-UC,AN449-5M,AY449-50D,AN449-10M,AY449-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 130, 200
P504S (AMACR)	RBT-AMACR	NU538-5UC,NU538-UC,AN538-5M,AX538-50D,AN538-10M,AX538-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 130, 200
P53	EP9	NU728-5UC,NU728-UC,AN728-5M,AY728-50D,AN728-10M,AY728-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 130, 200
p53 Protein	BP53-12-1	MU195-5UC,MU195-UC,AM195-5M,AX195-50D,AM195-10M,AX195-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 131, 200
p53 Protein	D07	MU239-5UC,MU239-UC,AM239-5M,AX239-50D,AM239-10M,AX239-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 131, 200
p53 Protein	1801	MU240-5UC,MU240-UC,AM240-5M,AX240-50D,AM240-10M,AX240-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 131, 200
PAP	A40010	MU532-5UC,MU532-UC,AM532-5M,AX532-50D,AM532-10M,AX532-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 131, 200
PAP Pen	-	XT001-PP	1 each	32, 190
Papillomavirus Type 16 (HPV-16)	Cam Vir-1	MU362-5UC,MU362-UC,AM362-5M,AX362-50D,AM362-10M,AX362-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	22, 52, 132, 200
PAS for Fungi Stain Kit	-	SS022,SS053-50X	50 test, 50 test	179, 181
Pax-5	ZP007	MU457-5UC,MU457-UC,AM457-5M,AX457-50D,AM457-10M,AX457-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 132, 200
Paxillin	EP89	NU876-5UC,NU876-UC,AN876-5M,AY876-50D,AN876-10M,AY876-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 132, 200



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PCNA probe	-	PR271-YAD,PR271-100	25 test, 0.650 ml	160
PD-1	NAT105	MU918-5UC,MU918-UC,AM918-5M,AX918-50D,AM918-10M,AX918-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	132, 201
PDCD4	EP102	NU875-5UC,NU875-UC,AN875-5M,AY875-50D,AN875-10M,AY875-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 133, 201
Pepsin 4-Pack Kit	-	EK000-10KE, EK000-10XE	200 Slides, 200 Slides	28, 41
Pepsin 4-Pack Kit	-	EK000-5KE	150 Slides	41
Periodic Acid-Schiff (PAS) Diastase Stain	-	SS039-50X	50 test	179, 181
Periodic Acid-Schiff (PAS) kit (Without Diastase)	-	SS002	50 test	179, 181
Periodic Acid-Schiff (PAS) Stain Kit	-	SS001,SS032-50X	50 test, 50 test	179, 181
Peroxide Block	-	HK111-5K, HK111-50K	6ml, 50ml	185
PGP9.5	3D9	MU736-5UC,MU736-UC,AM736-5M,AY736-50D,AM736-10M,AY736-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 133, 201
PGR probe	-	PR282-YAD,PR282-100	25 test, 0.650 ml	160
Phosphate Buffer Saline (PBS) 20x	-	HK091-9K	500 ml	184
Pipette Tips, 200ul (192 tips), for Xmatrx	-	XT146-01X	960 tips	30, 191
Pipette Tips, 200ul (960 tips)/5 Boxes, for Xmatrx	-	XT145-05X	960 tips	30, 191
Placental Alkaline Phosphatase (PLAP)	PL8-F6	MU228-5UC,MU228-UC,AM228-5M,AX228-50D,AM228-10M,AX228-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 133, 201
Placental Lactogen (hPL)	Polyclonal	AR040-5R,AW040-50D,AR040-10R,AW040-YCD	0.5 ml, 50 test, 100 test, 200 test	25, 52, 133, 201
Platelet-Derived Growth Factor (PDGF)	PDGF88	MU376-5UC,MU376-UC,AM376-5M,AX376-50D,AM376-10M,AX376-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 134, 201
Platelet-Derived Growth Factor (PDGF)	Polyclonal	PU376-5UP,PU376-UP,AR376-5R,AW376-50D,AR376-10R,AW376-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 134, 201
PMS2	EP51	NU844-5UC,NU844-UC,AN844-5M,AY844-50D,AN844-10M,AY844-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 134, 201
Positive Control on Barrier Slides	-	FB-001M to FB-876N	5/PK	194-202
Positive Control Slides	-	FG-001M to FG-876N	5/PK	194-202
Power Block	-	HK083-5K, HK083-50K	6 ml, 50 ml	185
Power Block (10X)	-	HK085-50K	100 ml	185
Progesterone Receptor	1A6	MU172-5UC,MU172-UC,AM172-5M,AX172-50D,AM172-10M,AX172-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 135, 201
Progesterone Receptor (PR)	EP2	NU711-5UC,NU711-UC,AN711-5M,AY711-50D,AN711-10M,AY711-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	134, 201
Progesterone Receptor, PR (InSite®)	PR88	MU328-5UC,MU328-UC,AM328-5M,AX328-50D,AM328-10M,AX328-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 135, 201
Prolactin	ME.121	MU031-5UC,MU031-UC,AM031-5M,AX031-50D,AM031-10M,AX031-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 135, 201
Proliferating Cell Nuclear Antigen (PCNA)	PC10	MU252-5UC,MU252-UC,AM252-5M,AX252-50D,AM252-10M,AX252-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 135, 201
Prostate Specific Acid Phosphatase (PSAP)	B01-94-21M-NA	MU013-5UC,MU013-UC,AM013-5M,AX013-50D,AM013-10M,AX013-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 136, 201
Prostate Specific Antigen (PSA)	ErPr8	MU014-5UC,MU014-UC,AM014-5M,AX014-50D,AM014-10M,AX014-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 136, 201
Protease XXIV 4-Pack Kit	-	EK002-10KE, EK002-10XE	200 Slides, 200 Slides	28, 41
Protease XXIV 4-Pack Kit	-	EK002-5KE	150 Slides	41
Proteinase K	-	HK878-5KE	5 ml	41
pS2 Estrogen Inducible Protein	PS2.1	MU190-5UC,MU190-UC,AM190-5M,AX190-50D,AM190-10M,AX190-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 136, 201
PSMA	EP192	NU714-5UC,NU714-UC,AN714-5M,AY714-50D,AN714-10M,AY714-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 137, 201
PSMA	SP29	NU768-5UC,NU768-UC,AN768-5M,AY768-50D,AN768-10M,AY768-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 136, 201
PTEN	SP218	NU746-5UC,NU746-UC,AN746-5M,AY746-50D,AN746-10M,AY746-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 52, 137, 201
PU.1	EP18	NU843-5UC,NU843-UC,AN843-5M,AY843-50D,AN843-10M,AY843-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 53, 137, 201



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R				
Rabbit, SS Neg Control	-	HK408-5R, HK408-7R	3 ml, 17 ml	188
Rat, SS Neg Control	-	HK407-5T	3 ml	188
Reagent Vial Insert	-	XT149-V24	24/PK	30, 189
Renal Cell Carcinoma (RCC)	RCC-26	MU543-5UC,MU543-UC,AM543-5M,AX543-50D,AM543-10M,AX543-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 53, 137, 201
Renal Masson's Trichome Stain Kit	-	SS050,SS050-50X	50 test, 50 test	179, 181
Resin Ribbon i500 PLUS	-	XT034-XEX	1each	33
Reticulin/No Counterstain Stain Kit	-	SS046,SS046-50X	50 test, 50 test	179, 181
Reticulin/Nuclear Fast Red Stain Kit	-	SS011,SS047-50X	50 test, 50 test	180, 181
Retinoblastoma (Rb) Probe	-	PR225-YAD,PR225-100	25 test, 0.650 ml	159, 160
Ribonucleoprotein (RNP)	58-15	MU230-5UC,MU230-UC,AM230-5M,AX230-50D,AM230-10M,AX230-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 53, 127, 201
S				
S100 Beta	EP32	NU713-5UC,NU713-UC,AN713-5M,AY713-50D,AN713-10M,AY713-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 138, 201
S-100 Protein	15E2E2	MU058-5UC,MU058-UC,AM058-5M,AX058-50D,AM058-10M,AX058-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 53, 138, 201
S-100 Protein	Polyclonal	PU058-5UP,PU058-UP,AR058-5R,AW058-50D,AR058-10R,AW058-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	25, 53, 138, 201
S100P	EP186	NU712-5UC,NU712-UC,AN712-5M,AY712-50D,AN712-10M,AY712-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 138, 201
S-A HRP Diluent	-	HK157-5K	100 ml	184
Safranin O Stain Kit	-	SS040,SS040-50X	50 test, 50 test	180, 181
Sarcomeric Actin	ZMSA-5	MU511-5UC,MU511-UC,AM511-5M,AX511-50D,AM511-10M,AX511-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 139, 201
Scramble Probe	-	PR032-100	0.650 ml	159
Secretin	Polyclonal	AR067-5R,AW067-50D,AR067-10R,AW067-YCD	0.5 ml, 50 test, 100 test, 200 test	26, 53, 139, 201
SERPINE1 probe	-	PR277-YAD,PR277-100	25 test, 0.650 ml	26, 53, 139
SLAMF7	Polyclonal	PU920-5UP,PU920-UP,AR920-5R,AW920-50D,AR920-10R,AW920-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	139, 201
Slide Barcode Labels	-	AM6010 to AM7990, AR6010 to AR6600	100/SHEET	32, 189
SOX2	Polyclonal	PU788-5UP,PU788-UP,AR788-5R,AW788-50D,AR788-10R,AW788-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 140, 201
SOX2	EP103	NU833-5UC,NU833-UC,AN833-5M,AY833-50D,AN833-10M,AY833-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 139, 201
SS Double Stain Polymer Detection Kit I/DAB & Fast Red	-	QS200-60KE	60 Slides	156
SS Double Stain Polymer Detection Kit I/DAB & Fast Red	-	QS200-YADE	100 Slides	27, 156
SS Double Stain Polymer Detection Kit I/ Large Volume	-	QS210-YIKE	500 Slides	156
SS Double Stain Polymer Detection Kit II/ DAB & Fast Red	-	QS400-60KE	60 Slides	156
SS Double Stain Polymer Detection Kit II/ DAB & Fast Red	-	QS400-YADE	100 Slides	27, 156
SS Double Stain Polymer Detection Kit II/ Large Volume	-	QS410-YIKE	500 Slides	156
SS Goat Link	-	HK337-5G	6ml	151
SS Mouse Link	-	HK335-5M, HK335-9M	6ml, 50ml	151
SS Mouse Negative Control	-	HK119-7M	17 ml	188
SS Multilink	-	HK340-5K, HK340-9K	6ml, 50ml	151
SS One Step Polymer-HRP IHC Detection System for Xmatrx	-	QD610-YADE	200 Slides	27, 150
SS One Step Polymer-HRP IHC Detection System for Xmatrx	-	QD610-YAXE	200 Slides	31, 150
SS Rabbit Link	-	HK336-5R, HK336-9R	6ml, 50ml	151



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SS Rat Link	-	HK338-5T	6ml	151
SS Strept Alka Phos Label	-	HK331-5K, HK331-9K	6ml, 50ml	151
Substance P	Polyclonal	PU069-5UP,PU069-UP,AR069-5R,AW069-50D,AR069-10R,AW069-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 140, 201
Sudan Black B Stain	-	SS019,SS041-50X	50 test, 50 test	180, 181
Super Mount	-	HK079-5K, HK079-7K	15 ml, 50 ml	187
Super Sensitive HRP Label	-	HK330-5K, HK330-9K	6 ml, 50 ml	151
Super Sensitive Link HRP IHC Detection System	-	QP900-9LE	500 Slides	150
Super Sensitive Link Label IHC Detection System, Alk Phos	-	QA900-9LE	500 Slides	150
Super Sensitive Link Label IHC Detection System, AP	-	LA000-ULE	1000 Slides	150
Super Sensitive Link Label IHC Detection System, HRP	-	LP000-ULE	1000 Slides	150
Super Sensitive Link Label IHC Detection System, HRP/DAB	-	QD420-YIKE	500 Slides	150
Super Sensitive Link Label IHC Detection System, HRP/DAB Mega	-	QD430-XAKE	1000 Slides	150
Super Sensitive Non-Biotin HRP, DAB Automated Kit	-	QD410-YAXE	200 Slides	150
Super Sensitive Non-Biotin HRP, DAB Kit	-	QD400-60KE	60 Slides	150
Super Sensitive One Step Polymer-HRP ISH Detection System	-	DF400-25K, DF400-50KE	25 Slides, 50 slides	164
Super Sensitive One Step Polymer-HRP ISH Detection System	-	DF400-YADE	100 slides	28, 164
Super Sensitive Polymer-HRP IHC Kit	-	QD440-XAKE	1000 Slides	150
Super Sensitive Wash Buffer, 20X	-	HK583-5K	500ml	30, 33, 184
Survivin	EP119	NU826-5UC,NU826-UC,AN826-5M,AY826-50D,AN826-10M,AY826-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 140, 201
Synaptophysin	Snp88	MU363-5UC,MU363-UC,AM363-5M,AX363-50D,AM363-10M,AX363-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 140, 201
Synaptophysin	EP158	NU857-5UC,NU857-UC,AN857-5M,AY857-50D,AN857-10M,AY857-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 141, 201
T				
Tau	TAU-2	MU412-5UC,MU412-UC,AM412-5M,AX412-50D,AM412-10M,AX412-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 141, 201
Tau	Tau-5	MU459-5UC,MU459-UC,AM459-5M,AX459-50D,AM459-10M,AX459-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 141, 201
TdT	EP266	NU881-5UC,NU881-UC,AN881-5M,AY881-50D,AN881-10M,AY881-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 141, 201
Thyroglobulin	2H11	MU032-5UC,MU032-UC,AM032-5M,AX032-50D,AM032-10M,AX032-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 142, 201
Thyroid Stimulating Hormone (TSH)	5404	MU033-5UC,MU033-UC,AM033-5M,AX033-50D,AM033-10M,AX033-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 142, 201
Thyroid Stimulating Hormone (TSH)	Polyclonal	AR033-5R,AW033-50D,AR033-10R,AW033-YCD	0.5 ml, 50 test, 100 test, 200 test	26, 53, 142, 201
Thyroxine	D5	MU034A-5UC,MU034A-UC,AM034A-5M,AX034-50D,AM034A-10M,AX034-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 142, 201
TIA-1	2G9A10F5	MU529-5UC,MU529-UC,AM529-5M,AX529-50D,AM529-10M,AX529-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 143, 201
TLR4 probe	-	PR290-YAD,PR290-100	25 test, 0.650 ml	160
TNF probe	-	PR266-YAD,PR266-100	25 test, 0.650 ml	160
Toluidine Blue Stain Kit	-	SS057,SS057-50X	50 test, 50 test	180, 181
Topoisomerase II, Alpha (TOP2A)	EP93	NU823-5UC,NU823-UC,AN823-5M,AY823-50D,AN823-10M,AY823-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 143, 201
Toxoplasma gondii	Polyclonal	PU125-5UP,PU125-UP,AR125-5R,AW125-50D,AR125-10R,AW125-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 143, 201
Transferrin	HT1/13.6.3	AM025-5M,AX025-50D,AM025-10M,AX025-YCD	0.5 ml, 50 test, 100 test, 200 test	26, 53, 143, 201



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Transforming Growth Factor (TGF) Alpha	TGF88	MU377-5UC,MU377-UC,AM377-5M,AX377-50D,AM377-10M,AX377-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 144, 201
Tris Buffer, Conc pH 7.6	-	HK098-5K	3/PK	184
Trypsin 4-Pack Kit	-	EK001-10KE, EK001-10XE	200 Slides, 200 Slides	28, 41
Trypsin 4-Pack Kit	-	EK001-5KE	150 Slides, 150 Slides	28, 41
TTF-1	SP141	NU887-5UC,NU887-UC,AN887-5M,AY887-50D,AN887-10M,AY887-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 144
TTF1 probe	-	PR267-YAD,PR267-100	25 test, 0.650 ml	160
Tumor-Associated Glycoprotein (TAG-72)	B72.3	MU054-5UC,MU054-UC,AM054-5M,AX054-50D,AM054-10M,AX054-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 144, 202
Tumor-Associated Glycoprotein (TAG-90 BCA)	B6.2	MU005-5UC,MU005-UC,AM005-5M,AX005-50D,AM005-10M,AX005-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 144, 202
Tyrosinase	Ty/G5	MU535-5UC,MU535-UC,AM535-5M,AX535-50D,AM535-10M,AX535-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 145, 202
U				
U6 Probe	-	PR031-100	0.650 ml	161
User Defined Empty Barcode labeled vials Two Step IHC	-	XT077-AX0601 to XT077-AX0800	1each	29, 189
User Defined Empty Barcode labeled vials Two Step IHC	-	XT077-AX0801 to XT0821-AX0999	1each	29, 189
V				
Van Gieson Stain Kit	-	SS044,SS044-50X	50 test, 50 test	180, 181
VEGF	Polyclonal	PU483-5UP,PU483-UP,AR483-5R,AW483-50D,AR483-10R,AW483-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 145, 202
Vimentin	V9	MU074-5UC,MU074-UC,AM074-5M,AX074-50D,AM074-10M,AX074-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 145, 202
Vimentin	LN6	MU163-5UC,MU163-UC,AM163-5M,AX163-50D,AM163-10M,AX163-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 145, 202
VIP	Polyclonal	PU530-5UP,PU530-UP,AR530-5R,AW530-50D,AR530-10R,AW530-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 146, 202
von Kossa Stainmanual use only!	-	SS045-50K	50 test	180, 181
W				
WT1 probe	-	PR278-YAD,PR278-100	25 test, 0.650 ml	160
X				
X-DeWax	-	HX016-XAK, HX016-XEK	1000 ml, 1 Gallon	30, 36
X-DeWax for Xmatrx	-	HX015-XAK	1L	30, 36
Xflex Ultra Consumable Kit, for Xmatrx	-	XT148-YCD	200 Slides	29, 191
Xmatrx Elite		AS4040B	1 Unit	16
Xmatrx Infinity		AS4000RX	1 Unit	16
Xmatrx Mini		AS1010	1 Unit	16
Xmatrx Reagent Vials	-	XT126-24V	24-/PK	29, 88
Xmatrx® NANO VIP		AS1000	1 Unit	16
Xmatrx® ULTRA Dx		AS4030B	1 Unit	16
XVIZ Detection Kit	-	QD550-YCDE, QD550-YCXE	200 slides, 200 slides	27, 150
X-Wash Buffer, 20X, for Xmatrx	-	HX020-YIK	500ml	30, 33, 184
Z				
ZAP-70	ZAP70-C3	MU544-5UC,MU544-UC,AM544-5M,AX544-50D,AM544-10M,AX544-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 146, 202
ZAP-70	EP52	NU852-5UC,NU852-UC,AN852-5M,AY852-50D,AN852-10M,AY852-YCD	0.5 ml, 1ml, 6 ml, 50 test, 100 test, 200 test	26, 53, 146, 202



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A		
AC562-5M,AC562-10M,AC562-YCD,AC562-50D	Ki-67 + Lambda Light Chain	23, 154, 199
AC601-5M,AC601-10M,AC601-YCD,AC601-50D	p16 + Ki67	24, 52, 154, 200
AM001-5M,MU001A-UC,MU001A-5UC,AM001-10M,AX001-YCD,AX001-50D	Melanoma	23, 51, 119, 199
AM005-5M,MU005-UC,MU005-5UC,AM005-10M,AX005-YCD,AX005-50D	Tumor-Associated Glycoprotein (TAG-90 BCA)	26, 53, 144, 202
AM008-5M,MU008A-UC,MU008A-5UC,AM008-10M,AX008-YCD,AX008-50D	Alpha-Fetoprotein (AFP)	16,45, 56, 194
AM009-5M,MU009-UC,MU009-5UC,AM009-10M,AX009-YCD,AX009-50D	Carcinoembryonic Antigen (CEA)	17, 46, 64, 195
AM012-5M,MU012-UC,MU012-5UC,AM012-10M,AX012-YCD,AX012-50D	Myoglobin	24, 51, 125, 200
AM013-5M,MU013-UC,MU013-5UC,AM013-10M,AX013-YCD,AX013-50D	Prostate Specific Acid Phosphatase (PSAP)	25, 52, 136, 201
AM014-5M,MU014-UC,MU014-5UC,AM014-10M,AX014-YCD,AX014-50D	Prostate Specific Antigen (PSA)	25, 52, 136, 201
AM016-5M,MU016-UC,MU016-5UC,AM016-10M,AX016-YCD,AX016-50D	Factor VIII-Related Antigen	21, 49, 104, 198
AM020-5M,MU020-UC,MU020-5UC,AM020-10M,AX020-YCD,AX020-50D	Glial Fibrillary Acidic Protein (GFAP)	22, 50, 107, 198
AM025-5M,AM025-10M,AX025-YCD,AX025-50D	Transferrin	26, 53, 143, 201
AM029-5M,MU029-UC,MU029-5UC,AM029-10M,AX029-YCD,AX029-50D	Insulin	23, 50, 114, 199
AM031-5M,MU031-UC,MU031-5UC,AM031-10M,AX031-YCD,AX031-50D	Prolactin	25, 52, 135, 201
AM032-5M,MU032-UC,MU032-5UC,AM032-10M,AX032-YCD,AX032-50D	Thyroglobulin	26, 53, 142, 201
AM033-5M,MU033-UC,MU033-5UC,AM033-10M,AX033-YCD,AX033-50D	Thyroid Stimulating Hormone (TSH)	26, 53, 142, 201
AM034A-5M,MU034A-UC,MU034A-5UC,AM034A-10M,AX034-YCD,AX034-50D	Thyroxine	26, 53, 142, 201
AM048-5M,MU048-UC,MU048-5UC,AM048-10M,AX048-YCD,AX048-50D	Kappa Light Chain	23, 50, 115, 199
AM054-5M,MU054-UC,MU054-5UC,AM054-10M,AX054-YCD,AX054-50D	Tumor-Associated Glycoprotein (TAG-72)	26, 53, 144, 202
AM055-5M,MU055-UC,MU055-5UC,AM055-10M,AX055-YCD,AX055-50D	Neuron Specific Enolase (NSE)	24, 52, 127, 200
AM057-5M,MU057-UC,MU057-5UC,AM057-10M,AX057-YCD,AX057-50D	Epithelial Membrane Antigen (EMA)	21, 49, 102, 198
AM058-5M,MU058-UC,MU058-5UC,AM058-10M,AX058-YCD,AX058-50D	S-100 Protein	25, 53, 138, 201
AM059-5M,MU059-UC,MU059-5UC,AM059-10M,AX059-YCD,AX059-50D	Adenovirus	16, 45, 55, 194
AM071-5M,MU071-UC,MU071-5UC,AM071-10M,AX071-YCD,AX071-50D	Cytokeratin Cocktail	21, 49, 98, 197
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AM074-5M,MU074-UC,MU074-5UC,AM074-10M,AX074-YCD,AX074-50D	Vimentin	26, 53, 145, 202
AM075-5M,MU075-UC,MU075-5UC,AM075-10M,AX075-YCD,AX075-50D	Cytokeratin, Low MW	21, 49, 99, 198
AM077-5M,MU077-UC,MU077-5UC,AM077-10M,AX077-YCD,AX077-50D	Melanoma-Associated Antigen	23, 51, 120, 199
AM090-5M,MU090-UC,MU090-5UC,AM090-10M,AX090-YCD,AX090-50D	Actin; Muscle-Specific	16,45, 54, 194

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AM109-5M,MU109-UC,MU109-5UC,AM109-10M,AX109-YCD,AX109-50D	Myosin, Skeletal Muscle	24, 51, 126, 200
AM111-5M,AM111-10M,AX111-YCD,AX111-50D	CD45 (Leukocyte common Antigen, LCA)	19, 47, 78, 196
AM113-5M,MU113-UC,MU113-5UC,AM113-10M,AX113-YCD,AX113-50D	CD45RO (T Cell)	19, 47, 79, 196
AM121-5M,MU121-UC,MU121-5UC,AM121-10M,AX121-YCD,AX121-50D	Alpha-Tubulin	16,45, 56, 194
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AM131-5M,MU131-UC,MU131-5UC,AM131-10M,AX131-YCD,AX131-50D	Cytokeratin 8 &18	21, 49, 95, 197
AM132-5M,AM132-10M,AX132-YCD,AX132-50D	Cytokeratin 13	20, 48, 95, 197
AM133-5M,MU133-UC,MU133-5UC,AM133-10M,AX133-YCD,AX133-50D	Cytokeratin HMW (Basic)	21, 49, 99, 197
AM134-5M,MU134-UC,MU134-5UC,AM134-10M,AX134-YCD,AX134-50D	c-erbB-2 (Her-2/neu)	17, 48, 89, 194
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AM142-5M,MU142-UC,MU142-5UC,AM142-10M,AX142-YCD,AX142-50D	Cytokeratin 8	21, 49, 95, 197
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AM146-5M,MU146-UC,MU146-5UC,AM146-10M,AX146-YCD,AX146-50D	Cytokeratin 14	20, 48, 96, 197
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AM182-5M,MU182-UC,MU182-5UC,AM182-10M,AX182-YCD,AX182-50D	Epithelial Membrane Antigen (EMA)	21, 49, 102, 198
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AM195-5M,MU195-UC,MU195-5UC,AM195-10M,AX195-YCD,AX195-50D	p53 Protein	25, 52, 131, 200
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AM213-5M,MU213-UC,MU213-5UC,AM213-10M,AX213-YCD,AX213-50D	Mitochondrial Antigen	23, 51, 120, 199
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AM240-5M,MU240-UC,MU240-5UC,AM240-10M,AX240-YCD,AX240-50D	p53 Protein	25, 52, 131, 200
AM241-5M,MU241-UC,MU241-5UC,AM241-10M,AX241-YCD,AX241-50D	CD31 (PECAM-1)	18, 47, 75, 196
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2G9A10F5	TIA-1	MU529-5UC,MU529-UC,AM529-5M,AX529-50D,AM529-10M,AX529-YCD	26, 53, 143, 201
2H11	Thyroglobulin	MU032-5UC,MU032-UC,AM032-5M,AX032-50D,AM032-10M,AX032-YCD	26, 53, 142, 201
2H7	CD16	MU437-5UC,MU437-UC,AM437-5M,AX437-50D,AM437-10M,AX437-YCD	18, 46, 71, 195
34βE12	Cytokeratin, High MW	AM291-5M,AX291-50D,AM291-10M,AX291-YCD	21, 49, 98, 198
34βE12/C51/AE1	Cytokeratin cocktail, broad spectrum	AM273-5M,AX273-50D,AM273-10M,AX273-YCD	21, 49, 98, 197

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3D9	PGP9.5	MU736-5UC,MU736-UC,AM736-5M,AX736-50D,AM736-10M,AY736-YCD	25, 52, 133, 201
45M1	MUC5AC	MU456-5UC,MU456-UC,AM456-5M,AX456-50D,AM456-10M,AX456-YCD	24, 51, 122, 200
4A11	Aberrant Endothelial Cell	MU382-5UC,MU382-UC,AM382-5M,AX382-50D,AM382-10M,AX382-YCD	16, 45, 54, 194
4B12	CD4	MU421-5UC,MU421-UC,AM421-5M,AX421-50D,AM421-10M,AX421-YCD	18, 47, 67, 196
4C7	CD5	MU430-5UC,MU430-UC,AM430-5M,AX430-50D,AM430-10M,AX430-YCD	19, 47, 67, 196
4D10	p21/WAF1	MU434-5UC,MU434-UC,AM434-5M,AX434-50D,AM434-10M,AX434-YCD	24, 52, 129, 200
4D2	IDO	MU916-5UC,MU916-UC,AM916-5M,AX916-50D,AM916-10M,AX916-YCD	50, 112, 199
4G11	CD105	MU441-5UC,MU441-UC,AM441-5M,AX441-50D,AM441-10M,AX441-YCD	17, 46, 85, 195
56C6	CD10	MU451-5UC,MU451-UC,AM451-5M,AX451-50D,AM451-10M,AX451-YCD	17, 46, 69, 195
58-15	Ribonucleoprotein (RNP)	MU230-5UC,MU230-UC,AM230-5M,AX230-50D,AM230-10M,AX230-YCD	25, 53, 127, 201
5B2	Mesothelin	MU433-5UC,MU433-UC,AM433-5M,AX433-50D,AM433-10M,AX433-YCD	23, 51, 120, 199
5C11	Glomerular Epithelial Protein 1 (GLEPP-1)	MU336-5UC,MU336-UC,AM336-5M,AX336-50D,AM336-10M,AX336-YCD	22, 50, 107, 198
5D3	Cytokeratin 8 & 18	MU131-5UC,MU131-UC,AM131-5M,AX131-50D,AM131-10M,AX131-YCD	21, 49, 95, 197
6B10	Cytokeratin 4	MU705-5UC,MU705-UC,AM705-5M,AX705-50D,AM705-10M,AX705-YCD	20, 48, 93, 197
7C6	BCR-ABL	MU903-5UC,MU903-UC,AM903-5M,AX903-50D,AM903-10M,AX903-YCD	16, 45, 59, 194
7LE	Blood Group Antigen Lewis A	MU303-5UC,MU303-UC,AM303-5M,AX302-50D,AM303-10M,AX303-YCD	17, 45, 61, 194
9E10	c-myc Protein	MU318-5UC,MU318-UC,AM318-5M,AX318-50D,AM318-10M,AX318-YCD	17, 38, 39, 40, 48, 90, 194
9G11	CD31 (PECAM-1)	MU241-5UC,MU241-UC,AM241-5M,AX241-50D,AM241-10M,AX241-YCD	18, 47, 75, 196
A103	Melan-A (MART-1)	MU361-5UC,MU361-UC,AM361-5M,AX361-50D,AM361-10M,AX361-YCD	23, 51, 119, 199
A17.1.1	CDK1	MU905-5UC,MU905-UC,AM905-5M,AX905-50D,AM905-10M,AX905-YCD	19, 48, 84, 197
a1A88	Alpha-1-Antichymotrypsin	MU388-5UC,MU388-UC,AM388-5M,AX388-50D,AM388-10M,AX388-YCD	16, 45, 55, 194
A27-42	B Lymphocyte Antigen 36; BLA-36	MU231-5UC,MU231-UC,AM231-5M,AX231-50D,AM231-10M,AX231-YCD	17, 45, 57, 194
A40010	PAP	MU532-5UC,MU532-UC,AM532-5M,AX532-50D,AM532-10M,AX532-YCD	25, 52, 131, 200



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A62020069P	Adenovirus	MU059-5UC,MU059-UC,AM059-5M,AX059-50D,AM059-10M,AX059-YCD	16, 45, 55, 194
AA1	Mast Cell Tryptase	MU419-5UC,MU419-UC,AM419-5M,AX419-50D,AM419-10M,AX419-YCD	23, 51, 118, 199
AB75	CD2	MU438-5UC,MU438-UC,AM438-5M,AX438-50D,AM438-10M,AX438-YCD	18, 46, 66, 195
Actin 88 Cocktail	Muscle Actins	MU381-5UC,MU381-UC,AM381-5M,AX381-50D,AM381-10M,AX381-YCD	24, 51, 123, 200
AE1	Cytokeratin, Low MW	MU075-5UC,MU075-UC,AM075-5M,AX075-50D,AM075-10M,AX075-YCD	21, 49, 99, 198
AE1 & AE3	Cytokeratin Cocktail	MU071-5UC,MU071-UC,AM071-5M,AX071-50D,AM071-10M,AX071-YCD	21, 49, 98, 197
AE3	Cytokeratin HMW (Basic)	MU133-5UC,MU133-UC,AM133-5M,AX133-50D,AM133-10M,AX133-YCD	21, 49, 99, 197
AE8	Cytokeratin 13	AM132-5M,AX132-50D,AM132-10M,AX132-YCD	20, 48, 95, 197
AH26	ACTH	MU487-5UC,MU487-UC,AM487-5M,AX487-50D,AM487-10M,AX487-YCD	16, 45, 54, 194
B01-94-11M-P	Carcinoembryonic Antigen (CEA)	MU009-5UC,MU009-UC,AM009-5M,AX009-50D,AM009-10M,AX009-YCD	17, 46, 64, 195
B01-94-21M-NA	Prostate Specific Acid Phosphatase (PSAP)	MU013-5UC,MU013-UC,AM013-5M,AX013-50D,AM013-10M,AX013-YCD	25, 52, 136, 201
B2	CD21	AM266-5M,AX266-50D,AM266-10M,AX266-YCD	18, 46, 73, 195
B6.2	Tumor-Associated Glycoprotein (TAG-90 BCA)	MU005-5UC,MU005-UC,AM005-5M,AX005-50D,AM005-10M,AX005-YCD	26, 53, 144, 202
B72.3	Tumor-Associated Glycoprotein (TAG-72)	MU054-5UC,MU054-UC,AM054-5M,AX054-50D,AM054-10M,AX054-YCD	26, 53, 144, 202
bcl-2/100	bcl-2 Oncoprotein	AM287-5M,AX287-50D,AM287-10M,AX287-YCD	16, 45, 58, 194
Ber-H2	CD30 (Ki-1 Antigen)	AM327-5M,AX327-50D,AM327-10M,AX327-YCD	18, 46, 74, 196
bFGF88	Basic Fibroblast Growth Factor (bFGF)	AM359-5M,AX359-50D,AM359-10M,AX359-YCD	17, 45, 61, 194
BM-1	Myeloid Specific Antigen	MU164-5UC,MU164-UC,AM164-5M,AX164-50D,AM164-10M,AX164-YCD	24, 51, 124, 200
BM-2	Granulocyte	MU210-5UC,MU210-UC,AM210-5M,AX210-50D,AM210-10M,AX210-YCD	22, 50, 109, 198
BM204	Cytomegalovirus (CMV)	MU254-5UC,MU254-UC,AM254-5M,AX254-50D,AM254-10M,AX254-YCD	49, 100, 198
BM-3	Myeloid Specific Antigen	AM216-5M,AX216-50D,AM216-10M,AX216-YCD	24, 51, 124, 200
BP53-12-1	p53 Protein	MU195-5UC,MU195-UC,AM195-5M,AX195-50D,AM195-10M,AX195-YCD	25, 52, 131, 200
BRA4F1	CD15 (Blood group antigen Lewis X)	MU302-5UC,MU302-UC,AM302-5M,AX302-50D,AM302-10M,AX302-YCD	18, 46, 70, 195
BRM-22	Heat Shock Protein 70 (HSP 70)	MU289-5UC,MU289-UC,AM289-5M,AX289-50D,AM289-10M,AX289-YCD	22, 50, 109, 198

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BY114	CD66	AM325-5M,AX325-50D,AM325-10M,AX325-YCD	19, 47, 81, 196
C11	Cytokeratin, Pan	MU357-5UC,MU357-UC,AM357-5M,AX357-50D,AM357-10M,AX357-YCD	49, 99, 198
C15	Cathepsin D	MU467-5UC,MU467-UC,AM467-5M,AX467-50D,AM467-10M,AX467-YCD	17, 46, 65, 195
C241:5:1:4	CA 19-9	MU424-5UC,MU424-UC,AM424-5M,AX424-50D,AM424-10M,AX424-YCD	17, 45, 62, 195
C3	Alpha-Fetoprotein (AFP)	MU008A-5UC,MU008A-UC,AM008-5M,AX008-50D,AM008-10M,AX008-YCD	16, 45, 56, 194
C51	Cytokeratin 8	MU142-5UC,MU142-UC,AM142-5M,AX142-50D,AM142-10M,AX142-YCD	21, 49, 95, 197
CALP	Calponin	MU333-5UC,MU333-UC,AM333-5M,AX333-50D,AM333-10M,AX333-YCD	17, 45, 63, 195
Cam Vir-1	Papillomavirus Type 16 (HPV-16)	MU362-5UC,MU362-UC,AM362-5M,AX362-50D,AM362-10M,AX362-YCD	22, 52, 132, 200
CB11	c-erbB-2 (Her-2/neu)	MU134-5UC,MU134-UC,AM134-5M,AX134-50D,AM134-10M,AX134-YCD	17, 48, 89, 194
CCP58	Mucin 2 (MUC2)	MU358-5UC,MU358-UC,AM358-5M,AX358-50D,AM358-10M,AX358-YCD	24, 51, 123, 200
CD20/C23	CD20	MU537-5UC,MU537-UC,AM537-5M,AX537-50D,AM537-10M,AX537-YCD	18, 46, 72, 195
CD68/G2	CD68	MU549-5UC,MU549-UC,AM549-5M,AX549-50D,AM549-10M,AX549-YCD	19, 47, 81, 196
CDX2-88	CDX-2	MU392A-5UC,MU392A-UC,AM392-5M,AX392-50D,AM392-10M,AX392-YCD	20, 48, 87, 197
CEA88	Carcinoembryonic Antigen (CEA)	MU365-5UC,MU365-UC,AM365-5M,AX365-50D,AM365-10M,AX365-YCD	17, 46, 64, 195
CL1673	CD40	MU913-5UC,MU913-UC,AM913-5M,AX913-50D,AM913-10M,AX913-YCD	19, 47, 76, 196
COL-94	Collagen IV	MU379-5UC,MU379-UC,AM379-5M,AX379-50D,AM379-10M,AX379-YCD	20, 48, 91, 197
CU18	Breast Cancer Antigen (BCA) 225	AM135-5M,AX135-50D,AM135-10M,AX135-YCD	16, 45, 62, 194
D33	Desmin	MU072-5UC,MU072-UC,AM072-5M,AX072-50D,AM072-10M,AX072-YCD	21, 49, 100, 198
D5	Thyroxine	MU034A-5UC,MU034A-UC,AM034A-5M,AX034-50D,AM034A-10M,AX034-YCD	26, 53, 142, 201
DC-10	Cytokeratin 18	MU143-5UC,MU143-UC,AM143-5M,AX143-50D,AM143-10M,AX143-YCD	20, 48, 97, 197
DCS72	p27 (Kip1)	MU396-5UC,MU396-UC,AM396-5M,AX396-50D,AM396-10M,AX396-YCD	24, 52, 129, 200
DEK-10	Cytokeratin 10	MU201-5UC,MU201-UC,AM201-5M,AX201-50D,AM201-10M,AX201-YCD	20, 48, 95, 197
DF1485	CD44 (Phagocytic Glycoprotein-1, HCAM)	MU310-5UC,MU310-UC,AM310-5M,AX310-50D,AM310-10M,AX310-YCD	19, 47, 77, 196



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DM-1A	Alpha-Tubulin	MU121-5UC,MU121-UC,AM121-5M,AX121-50D,AM121-10M,AX121-YCD	16,45, 56, 194
DM-1B	Beta-Tubulin	MU122-5UC,MU122-UC,AM122-5M,AX122-50D,AM122-10M,AX122-YCD	17, 45, 60, 194
D07	p53 Protein	MU239-5UC,MU239-UC,AM239-5M,AX239-50D,AM239-10M,AX239-YCD	25, 52, 131, 200
Dys1 (Dy4/6D3)	Dystrophin	AM243-5M,AX243-50D,AM243-10M,AX243-YCD	21, 49, 100, 198
Dys2 (Dy8/6C5)	Dystrophin	AM244-5M,AX244-50D,AM244-10M,AX244-YCD	21, 49, 101, 198
E27	Cytokeratin 17	MU572-5UC,MU572-UC,AM572-5M,AX572-50D,AM572-10M,AX572-YCD	20, 48, 96, 197
E29	Epithelial Membrane Antigen (EMA)	MU057-5UC,MU057-UC,AM057-5M,AX057-50D,AM057-10M,AX057-YCD	21, 49, 102, 198
E3	Glycophorin A + B	MU889-5UC,MU889-UC,AM889-5M,AX889-50D,AM889-10M,AX889-YCD	22, 50, 108, 198
E980.1	Factor XIIIa	MU337-5UC,MU337-UC,AM337-5M,AX337-50D,AM337-10M,AX337-YCD	22, 49, 105, 198
EP1	Estrogen Receptor (ER) Alpha	NU710-5UC,NU710-UC,AN710-5M,AY710-50D,AN710-10M,AY710-YCD	49, 104, 198
EP10	c-Kit / CD117	NU818-5UC,NU818-UC,AN818-5M,AY818-50D,AN818-10M,AY818-YCD	17, 48, 88, 194
EP102	PDCD4	NU875-5UC,NU875-UC,AN875-5M,AY875-50D,AN875-10M,AY875-YCD	25, , 133, 201
EP103	SOX2	NU833-5UC,NU833-UC,AN833-5M,AY833-50D,AN833-10M,AY833-YCD	26, 53, 139, 201
EP104	p27 (Kip1)	NU817-5UC,NU817-UC,AN817-5M,AY817-50D,AN817-10M,AY817-YCD	24, 52, 129, 200
EP111	ERG, Ets-Related Gene	NU782-5UC,NU782-UC,AN782-5M,AY782-50D,AN782-10M,AY782-YCD	21, 49, 103, 198
EP115	O2-Oct	NU830-5UC,NU830-UC,AN830-5M,AY830-50D,AN830-10M,AY830-YCD	24, 52, 127, 200
EP117	CD13	NU832-5UC,NU832-UC,AN832-5M,AY832-50D,AN832-10M,AY832-YCD	18, 46, 70, 195
EP119	Survivin	NU826-5UC,NU826-UC,AN826-5M,AY826-50D,AN826-10M,AY826-YCD	26, 53, 140, 201
EP12	Cyclin D1	NU815-5UC,NU815-UC,AN815-5M,AY815-50D,AN815-10M,AY815-YCD	20, 48, 92, 197
EP125	Insulin	NU735-5UC,NU735-UC,AN735-5M,AY735-50D,AN735-10M,AY735-YCD	23, 50, 114, 199
EP126	Cyclin E1	NU854-5UC,NU854-UC,AN854-5M,AY854-50D,AN854-10M,AY854-YCD	20, 48, 92, 197
EP127	MMP-9	NU816-5UC,NU816-UC,AN816-5M,AY816-50D,AN816-10M,AY816-YCD	23, 51, 121, 200

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EP13	Glial Fibrillary Acidic Protein (GFAP)	NU783-5UC,NU783-UC,AN783-5M,AY783-50D,AN783-10M,AY783-YCD	22, 50, 106, 198
EP14	Cytokeratin 15	NU855-5UC,NU855-UC,AN855-5M,AY855-50D,AN855-10M,AY855-YCD	20, 48, 96, 197
EP143	O4-Oct	NU724-5UC,NU724-UC,AN724-5M,AY724-50D,AN724-10M,AY724-YCD	24, 52, 128, 200
EP148	CD48	NU721-5UC,NU721-UC,AN721-5M,AY721-50D,AN721-10M,AY721-YCD	19, 47, 79, 196
EP155	Ep-CAM	NU820-5UC,NU820-UC,AN820-5M,AY820-50D,AN820-10M,AY820-YCD	21, 49, 102, 198
EP157	CD11c	NU822-5UC,NU822-UC,AN822-5M,AY822-50D,AN822-10M,AY822-YCD	18, 46, 70, 195
EP158	Synaptophysin	NU857-5UC,NU857-UC,AN857-5M,AY857-50D,AN857-10M,AY857-YCD	26, 53, 141, 201
EP160	CD82	NU757-5UC,NU757-UC,AN757-5M,AY757-50D,AN757-10M,AY757-YCD	20, 47, 83, 196
EP162	Myogenin	NU789-5UC,NU789-UC,AN789-5M,AY789-50D,AN789-10M,AY789-YCD	24, 51, 125, 200
EP169	CD19	NU729-5UC,NU729-UC,AN729-5M,AY729-50D,AN729-10M,AY729-YCD	18, 46, 71, 195
EP172	Lambda light chain	NU715-5UC,NU715-UC,AN715-5M,AY715-50D,AN715-10M,AY715-YCD	23, 51, 117, 199
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EP178	CD41/Integrin	NU732-5UC,NU732-UC,AN732-5M,AY732-50D,AN732-10M,AY732-YCD	19, 47, 76, 196
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EP2	Progesterone Receptor (PR)	NU711-5UC,NU711-UC,AN711-5M,AY711-50D,AN711-10M,AY711-YCD	134, 201
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EP22	EGFR	NU781-5UC,NU781-UC,AN781-5M,AY781-50D,AN781-10M,AY781-YCD	21, 49, 101, 198
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EP25	CDX-2	NU777-5UC,NU777-UC,AN777-5M,AY777-50D,AN777-10M,AY777-YCD	20, 48, 88, 197
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EP3	Her2/ErbB2	NU726-5UC,NU726-UC,AN726-5M,AY726-50D,AN726-10M,AY726-YCD	22, 50, 89, 199
EP31	NGF Receptor	NU738-5UC,NU738-UC,AN738-5M,AY738-50D,AN738-10M,AY738-YCD	24, 52, 127, 200
EP32	S100 Beta	NU713-5UC,NU713-UC,AN713-5M,AY713-50D,AN713-10M,AY713-YCD	26, 53, 138, 201
EP35	Beta-Catenin	NU778-5UC,NU778-UC,AN778-5M,AY778-50D,AN778-10M,AY778-YCD	16, 45, 59, 194
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EP40	MCM2	NU834-5UC,NU834-UC,AN834-5M,AY834-50D,AN834-10M,AY834-YCD	23, 51, 119, 199
EP41	CD3 (T Cell)	NU846-5UC,NU846-UC,AN846-5M,AY846-50D,AN846-10M,AY846-YCD	18, 46, 66, 195
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EP45	CD11b/ITAM	NU851-5UC,NU851-UC,AN851-5M,AY851-50D,AN851-10M,AY851-YCD	18, 46, 69, 195
EP51	PMS2	NU844-5UC,NU844-UC,AN844-5M,AY844-50D,AN844-10M,AY844-YCD	25, 52, 134, 201
EP52	ZAP-70	NU852-5UC,NU852-UC,AN852-5M,AY852-50D,AN852-10M,AY852-YCD	26, 53, 146, 202
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EP6	E-Cadherin	NU725-5UC,NU725-UC,AN725-5M,AY725-50D,AN725-10M,AY725-YCD	21, 49, 101, 198
EP61	Cytokeratin 14	NU831-5UC,NU831-UC,AN831-5M,AY831-50D,AN831-10M,AY831-YCD	20, 48, 96, 197
EP63	Calponin-1	NU821-5UC,NU821-UC,AN821-5M,AY821-50D,AN821-10M,AY821-YCD	17, 45, 63, 195
EP64	CD21	NU825-5UC,NU825-UC,AN825-5M,AY825-50D,AN825-10M,AY825-YCD	18, 46, 72, 195
EP67	Cytokeratin 6	NU845-5UC,NU845-UC,AN845-5M,AY845-50D,AN845-10M,AY845-YCD	20, 49, 94, 197
EP77	CD5	NU824-5UC,NU824-UC,AN824-5M,AY824-50D,AN824-10M,AY824-YCD	19, 47, 67, 196
EP8	CD99	NU850-5UC,NU850-UC,AN850-5M,AY850-50D,AN850-10M,AY850-YCD	20, 48, 84, 197
EP82	CD79a	NU719-5UC,NU719-UC,AN719-5M,AY719-50D,AN719-10M,AY719-YCD	20, 47, 83, 196
EP85	Mucin 1 (MUC1)	NU813-5UC,NU813-UC,AN813-5M,AY813-50D,AN813-10M,AY813-YCD	24, 51, 121, 200
EP88	CD34 (Endothelial Cell)	NU779-5UC,NU779-UC,AN779-5M,AY779-50D,AN779-10M,AY779-YCD	18, 47, 75, 196
EP89	Paxillin	NU876-5UC,NU876-UC,AN876-5M,AY876-50D,AN876-10M,AY876-YCD	25, 52, 132, 200
EP9	P53	NU728-5UC,NU728-UC,AN728-5M,AY728-50D,AN728-10M,AY728-YCD	25, 52, 130, 200
EP93	Topoisomerase II, Alpha (TOP2A)	NU823-5UC,NU823-UC,AN823-5M,AY823-50D,AN823-10M,AY823-YCD	26, 53, 143, 201
EP94	Bcl-x	NU819-5UC,NU819-UC,AN819-5M,AY819-50D,AN819-10M,AY819-YCD	16, 59, 194
EP95	GCDPF-15	NU856-5UC,NU856-UC,AN856-5M,AY856-50D,AN856-10M,AY856-YCD	22, 49, 106, 198
ER88	Estrogen Receptor, ER (InSite®)	MU368-5UC,MU368-UC,AM368-5M,AX368-50D,AM368-10M,AX368-YCD	21, 49, 104, 198
ErPr8	Prostate Specific Antigen (PSA)	MU014-5UC,MU014-UC,AM014-5M,AX014-50D,AM014-10M,AX014-YCD	25, 52, 136, 201
ES05	MLH1	MU703-5UC,MU703-UC,AM703-5M,AX703-50D,AM703-10M,AX703-YCD	23, 51, 121, 199
F39.4.1	Androgen Receptor	MU256-5UC,MU256-UC,AM256-5M,AX256-50D,AM256-10M,AX256-YCD	16,45, 56, 194
F8 2.2.9	Factor VIII-Related Antigen	MU016-5UC,MU016-UC,AM016-5M,AX016-50D,AM016-10M,AX016-YCD	21, 49, 104, 198
FCN01	Fascin	MU488-5UC,MU488-UC,AM488-5M,AX488-50D,AM488-10M,AX488-YCD	22, 49, 105, 198
FPC1	CD22	MU439-5UC,MU439-UC,AM439-5M,AX439-50D,AM439-10M,AX439-YCD	18, 46, 73, 195



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G175-405	p16 (INK4a)	MU540-5UC,MU540-UC,AM540-5M,AX540-50D,AM540-10M,AX540-YCD	24, 52, 128, 200
G175-405 + EPR3611	p16 + Ki67	AC601-5M,AC601-50D,AC601-10M,AC601-YCD	24, 52, 200
G3.1	Heat Shock Protein 27 (HSP 27)	MU171-5UC,MU171-UC,AM171-5M,AX171-50D,AM171-10M,AX171-YCD	22, 50, 109, 198
GA-5	Glial Fibrillary Acidic Protein (GFAP)	MU020-5UC,MU020-UC,AM020-5M,AX020-50D,AM020-10M,AX020-YCD	22, 50, 107, 198
gp100/D5	Melanoma gp100	MU536-5UC,MU536-UC,AM536-5M,AX536-50D,AM536-10M,AX536-YCD	23, 51, 119, 199
GPC3-88	Glypican-3 (GPC3)	MU539-5UC,MU539-UC,AM539-5M,AX539-50D,AM539-10M,AX539-YCD	22, 50, 108, 198
H68.4	CD71 (transferrin Receptor)	MU354-5UC,MU354-UC,AM354-5M,AX354-50D,AM354-10M,AX354-YCD	19, 47, 82, 196
HB125	Insulin	MU029-5UC,MU029-UC,AM029-5M,AX029-50D,AM029-10M,AX029-YCD	23, 50, 114, 199
h-CD	Caldesmon HMW, Smooth muscle	MU332-5UC,MU332-UC,AM332-5M,AX332-50D,AM332-10M,AX332-YCD	17, 45, 63, 195
HHF35	Actin; Muscle-Specific	MU090-5UC,MU090-UC,AM090-5M,AX090-50D,AM090-10M,AX090-YCD	16,45, 54, 194
HMB45	Melanoma	MU001A-5UC,MU001A-UC,AM001-5M,AX001-50D,AM001-10M,AX001-YCD	23, 51, 119, 199
HO36.1.1	CD99	MU355-5UC,MU355-UC,AM355-5M,AX355-50D,AM355-10M,AX355-YCD	20, 48, 84, 197
HRS-4	CD30 (Ki-1 Antigen)	MU351-5UC,MU351-UC,AM351-5M,AX351-50D,AM351-10M,AX351-YCD	18, 46, 74, 196
HSA/E8	HSA	MU550-5UC,MU550-UC,AM550-5M,AX550-50D,AM550-10M,AX550-YCD	22, 50, 111, 199
HT1/13.6.3	Transferrin	AM025-5M,AX025-50D,AM025-10M,AX025-YCD	26, 53, 143, 201
HWD1.1	Collagen III	MU167-5UC,MU167-UC,AM167-5M,AX167-50D,AM167-10M,AX167-YCD	20, 48, 91, 197
IgG88	IgG	MU367-5UC,MU367-UC,AM367-5M,AX367-50D,AM367-10M,AX367-YCD	23, 50, 112, 199
IgM88	IgM	MU366-5UC,MU366-UC,AM366-5M,AX366-50D,AM366-10M,AX366-YCD	23, 50, 113, 199
IP64	Napsin A	MU701-5UC,MU701-UC,AM701-5M,AX701-50D,AM701-10M,AX701-YCD	24, 52, 126, 200
IT-Ks20.8	Cytokeratin 20	MU315-5UC,MU315-UC,AM315-5M,AX315-50D,AM315-10M,AX315-YCD	20, 48, 97, 197
JB1a	CD29	MU298-5UC,MU298-UC,AM298-5M,AX298-50D,AM298-10M,AX298-YCD	18, 46, 74, 195
JC/70A	CD31 (Endothelial Cell)	AM232-5M,AX232-50D,AM232-10M,AX232-YCD	18, 46, 74, 196
JC88	J chain	MU374-5UC,MU374-UC,AM374-5M,AX374-50D,AM374-10M,AX374-YCD	23, 50, 114, 199

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JDR3B8	Beta-Tubulin II	MU176-5UC,MU176-UC,AM176-5M,AX176-50D,AM176-10M,AX176-YCD	16, 45, 60, 194
JLN20	Alpha-Actinin	MU097-5UC,MU097-UC,AM097-5M,AX097-50D,AM097-10M,AX097-YCD	16,45, 56, 194
K.513.1	CDK9	NU908-5UC,NU908-UC,AN908-5M,AY908-50D,AN908-10M,AY908-YCD	19, 48, 85, 197
K-2	Ki-67	MU410-5UC,MU410-UC,AM410-5M,AX410-50D,AM410-10M,AX410-YCD	23, 51, 115, 199
K-2 + Polyclonal	Ki-67 + Lambda Light Chain	AC562-5M,AC562-50D,AC562-10M,AC562-YCD	23, 154, 199
K88	Kappa Light Chain	MU369-5UC,MU369-UC,AM369-5M,AX369-50D,AM369-10M,AX369-YCD	23, 50, 115, 199
Ki88	Ki-67	MU370-5UC,MU370-UC,AM370-5M,AX370-50D,AM370-10M,AX370-YCD	23, 50, 116, 199
KP1	CD68	MU416-5UC,MU416-UC,AM416-5M,AX416-50D,AM416-10M,AX416-YCD	19, 47, 81, 196
L1C1	Kappa Light Chain	MU048-5UC,MU048-UC,AM048-5M,AX048-50D,AM048-10M,AX048-YCD	23, 50, 115, 199
L-26	CD20 (B cell)	MU238A-5UC,MU238A-UC,AM238-5M,AX238-50D,AM238-10M,AX238-YCD	18, 46, 72, 195
LJ27.9	CD45 (Leukocyte common Antigen, LCA)	MU338-5UC,MU338-UC,AM338-5M,AX338-50D,AM338-10M,AX338-YCD	19, 47, 78, 196
LK2H10	Chromogranin A	MU126-5UC,MU126-UC,AM126-5M,AX126-50D,AM126-10M,AX126-YCD	20, 48, 90, 197
LL002	Cytokeratin 14	MU146-5UC,MU146-UC,AM146-5M,AX146-50D,AM146-10M,AX146-YCD	20, 48, 96, 197
LL002+ DEK-10+ RCK108+ OV-TL12/30+C11	Cytokeratin cocktail, broad spectrum	MU372-5UC,MU372-UC,AM372-5M,AX372-50D,AM372-10M,AX372-YCD	21, 49, 98, 197
LN1	CDw75 (B cell)	MU152-5UC,MU152-UC,AM152-5M,AX152-50D,AM152-10M,AX152-YCD	20, 48, 87, 197
LN2	CD74 (B cell)	MU153-5UC,MU153-UC,AM153-5M,AX153-50D,AM153-10M,AX153-YCD	19, 47, 82, 196
LN22	BCL-6	MU708-5UC,MU708-UC,AM708-5M,AX708-50D,AM708-10M,AX708-YCD	16, 45, 59, 194
LN3	HLA-DR	MU154-5UC,MU154-UC,AM154-5M,AX154-50D,AM154-10M,AX154-YCD	22, 50, 111, 199
LN5	Macrophage	MU165-5UC,MU165-UC,AM165-5M,AX165-50D,AM165-10M,AX165-YCD	23, 51, 118, 199
LN6	Vimentin	MU163-5UC,MU163-UC,AM163-5M,AX163-50D,AM163-10M,AX163-YCD	26, 53, 145, 202
L026	Myf4	MU432-5UC,MU432-UC,AM432-5M,AX432-50D,AM432-10M,AX432-YCD	24, 51, 125, 200
LP15	CD7	MU702-5UC,MU702-UC,AM702-5M,AX702-50D,AM702-10M,AX702-YCD	19, 47, 68, 196
Lu-5	Cytokeratin, Pan	MU181-5UC,MU181-UC,AM181-5M,AX181-50D,AM181-10M,AX181-YCD	21, 49, 99, 198



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MO1	CD11b/ITAM	AM270-5M,AX270-50D,AM270-10M,AX270-YCD	18, 46, 69, 195
M94138	Human Chorionic Gonadotropin (hCG) Beta	MU395-5UC,MU395-UC,AM395-5M,AX395-50D,AM395-10M,AX395-YCD	22, 50, 111, 199
MB1	CD45RA (B cell)	AM157-5M,AX157-50D,AM157-10M,AX157-YCD	19, 47, 78, 196
MB2	B Cell	MU158-5UC,MU158-UC,AM158-5M,AX158-50D,AM158-10M,AX158-YCD	16, 45, 57, 194
MBP88	Myelin Basic Protein	AM380-5M,AX380-50D,AM380-10M,AX380-YCD	24, 51, 124, 200
Mc5	Epithelial Membrane Antigen (EMA)	MU182-5UC,MU182-UC,AM182-5M,AX182-50D,AM182-10M,AX182-YCD	21, 49, 102, 198
MDR88	Multi-Drug Resistance Marker (P-Glycoprotein)	MU391-5UC,MU391-UC,AM391-5M,AX391-50D,AM391-10M,AX391-YCD	24, 51, 123, 200
ME.121	Prolactin	MU031-5UC,MU031-UC,AM031-5M,AX031-50D,AM031-10M,AX031-YCD	25, 52, 135, 201
MEM55	CD45RB	MU320-5UC,MU320-UC,AM320-5M,AX320-50D,AM320-10M,AX320-YCD	19, 47, 79, 196
MEM55+LJ27.9	CD45 Cocktail (Leukocyte Antigen, LCA)	MU371-5UC,MU371-UC,AM371-5M,AX371-50D,AM371-10M,AX371-YCD	19, 47, 78, 196
MG-1	Myoglobin	MU012-5UC,MU012-UC,AM012-5M,AX012-50D,AM012-10M,AX012-YCD	24, 51, 125, 200
MIB-1	Ki-67	MU297-5UC,MU297-UC,AM297-5M,AX297-50D,AM297-10M,AX297-YCD	23, 50, 115, 199
MIG-N3	Neuron Specific Enolase (NSE)	MU055-5UC,MU055-UC,AM055-5M,AX055-50D,AM055-10M,AX055-YCD	24, 52, 127, 200
MITF/A13	MITF	MU554-5UC,MU554-UC,AM554-5M,AX554-50D,AM554-10M,AX554-YCD	23, 51, 120, 199
MOC-31	Epithelial-Specific Antigen	MU316-5UC,MU316-UC,AM316-5M,AX316-50D,AM316-10M,AX316-YCD	21, 49, 103, 198
MT1 & MB1	CD43 & CD45RA Cocktail	AM159-5M,AX159-50D,AM159-10M,AX159-YCD	19, 47, 77, 196
MT2	CD45RC (T Cell)	MU156-5UC,MU156-UC,AM156-5M,AX156-50D,AM156-10M,AX156-YCD	19, 47, 79, 196
MY-32	Myosin, Skeletal Muscle	MU109-5UC,MU109-UC,AM109-5M,AX109-50D,AM109-10M,AX109-YCD	24, 51, 126, 200
NAT105	PD-1	MU918-5UC,MU918-UC,AM918-5M,AX918-50D,AM918-10M,AX918-YCD	132, 201
NE-14	Neurofilament	MU073-5UC,MU073-UC,AM073-5M,AX073-50D,AM073-10M,AX073-YCD	24, 52, 126, 200
NK-1	CD57 (Natural Killer Cell)	MU314-5UC,MU314-UC,AM314-5M,AX314-50D,AM314-10M,AX314-YCD	19, 47, 80, 196
NKH-1	CD56 (Natural Killer Cell, NCAM)	MU268-5UC,MU268-UC,AM268-5M,AX268-50D,AM268-10M,AX268-YCD	19, 47, 80, 196
NKI/C3	Melanoma-Associated Antigen	MU077-5UC,MU077-UC,AM077-5M,AX077-50D,AM077-10M,AX077-YCD	23, 51, 120, 199

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O10	CD1a	MU490-5UC,MU490-UC,AM490-5M,AX490-50D,AM490-10M,AX490-YCD	18, 46, 65, 195
ONS1A6	Beta-Tubulin IV	MU178-5UC,MU178-UC,AM178-5M,AX178-50D,AM178-10M,AX178-YCD	17, 45, 60, 194
OST1	Osteonectin	MU387-5UC,MU387-UC,AM387-5M,AX387-50D,AM387-10M,AX387-YCD	24, 52, 128, 200
Ov185:1	CA 125	MU429-5UC,MU429-UC,AM429-5M,AX429-50D,AM429-10M,AX429-YCD	17, 45, 62, 195
OV-TL12/30	Cytokeratin 7	MU255-5UC,MU255-UC,AM255-5M,AX255-50D,AM255-10M,AX255-YCD	21, 49, 94, 197
OV-TL12/30 & C51	Cytokeratin 7 & 8	MU587-5UC,MU587-UC,AM587-5M,AX587-50D,AM587-10M,AX587-YCD	21, 49, 94, 197
PC10	Proliferating Cell Nuclear Antigen (PCNA)	MU252-5UC,MU252-UC,AM252-5M,AX252-50D,AM252-10M,AX252-YCD	25, 52, 135, 201
PD7/26/16 & 2B11	CD45 (Leukocyte common Antigen, LCA)	AM111-5M,AX111-50D,AM111-10M,AX111-YCD	19, 47, 78, 196
PDGF88	Platelet-Derived Growth Factor (PDGF)	MU376-5UC,MU376-UC,AM376-5M,AX376-50D,AM376-10M,AX376-YCD	25, 52, 134, 201
PHE-5	Chromogranin A	MU356-5UC,MU356-UC,AM356-5M,AX356-50D,AM356-10M,AX356-YCD	20, 48, 90, 197
PL8-F6	Placental Alkaline Phosphatase (PLAP)	MU228-5UC,MU228-UC,AM228-5M,AX228-50D,AM228-10M,AX228-YCD	25, 52, 133, 201
POH-1	p34 (cdc2 Cyclin Dependent Kinase)	MU301-5UC,MU301-UC,AM301-5M,AX301-50D,AM301-10M,AX301-YCD	25, 52, 130, 200
Polyclonal	Carcinoembryonic Antigen (CEA)	AR009-5R,AW009-50D,AR009-10R,AW009-YCD	16, 45, 54, 194
Polyclonal	Myoglobin	PU012-5UP,PU012-UP,AR012-5R,AW012-50D,AR012-10R,AW012-YCD	16, 45, 55, 194
Polyclonal	Alpha-1-Antitrypsin	PU015-5UP,PU015-UP,AR015-5R,AW015-50D,AR015-10R,AW015-YCD	16, 45, 58, 194
Polyclonal	Gastrin	PU019-5UP,PU019-UP,AR019-5R,AW019-50D,AR019-10R,AW019-YCD	17, 45, 61, 194
Polyclonal	Glial Fibrillary Acidic Protein (GFAP)	PU020-5UP,PU020-UP,AR020-5R,AW020-50D,AR020-10R,AW020-YCD	17, 45, 64, 195
Polyclonal	Hemoglobin A	AR021-5R,AW021-50D,AR021-10R,AW021-YCD	17, 46, 65, 195
Polyclonal	Lysozyme	PU024-5UP,PU024-UP,AR024-5R,AW024-50D,AR024-10R,AW024-YCD	18, 46, 86, 195
Polyclonal	Thyroid Stimulating Hormone (TSH)	AR033-5R,AW033-50D,AR033-10R,AW033-YCD	18, 46, 73, 195
Polyclonal	Estradiol	AR038-5R,AW038-50D,AR038-10R,AW038-YCD	18, 46, 73, 195
Polyclonal	Glucagon	PU039-5UP,PU039-UP,AR039-5R,AW039-50D,AR039-10R,AW039-YCD	19, 48, 88, 197
Polyclonal	Placental Lactogen (hPL)	AR040-5R,AW040-50D,AR040-10R,AW040-YCD	20, 48, 92, 197
Polyclonal	IgA	PU045-5UP,PU045-UP,AR045-5R,AW045-50D,AR045-10R,AW045-YCD	21, 49, 102, 198



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Polyclonal	Lambda Light Chain	PU049-5UP,PU049-UP,AR049-5R,AW049-50D,AR049-10R,AW049-YCD	21, 49, 103, 198
Polyclonal	IgG	PU050-5UP,PU050-UP,AR050-5R,AW050-50D,AR050-10R,AW050-YCD	21, 49, 104, 198
Polyclonal	S-100 Protein	PU058-5UP,PU058-UP,AR058-5R,AW058-50D,AR058-10R,AW058-YCD	22, 49, 105, 198
Polyclonal	Secretin	AR067-5R,AW067-50D,AR067-10R,AW067-YCD	22, 49, 105, 198
Polyclonal	Substance P	PU069-5UP,PU069-UP,AR069-5R,AW069-50D,AR069-10R,AW069-YCD	22, 49, 106, 198
Polyclonal	Laminin	PU078-5UP,PU078-UP,AR078-5R,AW078-50D,AR078-10R,AW078-YCD	22, 50, 106, 198
Polyclonal	Hepatitis B Virus Core Antigen (HBcAg)	PU082-5UP,PU082-UP,AR082-5R,AW082-50D,AR082-10R,AW082-YCD	22, 50, 107, 198
Polyclonal	Herpes Simplex Virus Type I (HSV I)	PU084-5UP,PU084-UP,AR084-5R,AW084-50D,AR084-10R,AW084-YCD	22, 50, 107, 198
Polyclonal	Herpes Simplex Virus Type II (HSV II)	PU085-5UP,PU085-UP,AR085-5R,AW085-50D,AR085-10R,AW085-YCD	22, 50, 108, 198
Polyclonal	Toxoplasma gondii	PU125-5UP,PU125-UP,AR125-5R,AW125-50D,AR125-10R,AW125-YCD	22, 50, 110, 198
Polyclonal	Glutathione S-Transferase Pi (GST Pi)	PU249-5UP,PU249-UP,AR249-5R,AW249-50D,AR249-10R,AW249-YCD	22, 50, 110, 199
Polyclonal	EGFR	PU335-5UP,PU335-UP,AR335-5R,AW335-50D,AR335-10R,AW335-YCD	22, 50, 110, 199
Polyclonal	BRCA1 Protein	PU345-5UP,PU345-UP,AR345-5R,AW345-50D,AR345-10R,AW345-YCD	23, 50, 111, 199
Polyclonal	Bax Protein	PU347-5UP,PU347-UP,AR347-5R,AW347-50D,AR347-10R,AW347-YCD	23, 50, 112, 199
Polyclonal	Platelet-Derived Growth Factor (PDGF)	PU376-5UP,PU376-UP,AR376-5R,AW376-50D,AR376-10R,AW376-YCD	23, 50, 112, 199
Polyclonal	Estrogen Receptor (ER) Beta	PU385-5UP,PU385-UP,AR385-5R,AW385-50D,AR385-10R,AW385-YCD	23, 50, 113, 199
Polyclonal	Calretinin	PU413-5UP,PU413-UP,AR413-5R,AW413-50D,AR413-10R,AW413-YCD	23, 50, 113, 199
Polyclonal	IgM	PU427-5UP,PU427-UP,AR427-5R,AW427-50D,AR427-10R,AW427-YCD	23, 51, 116, 199
Polyclonal	IgD	PU440-5UP,PU440-UP,AR440-5R,AW440-50D,AR440-10R,AW440-YCD	51, 116, 199
Polyclonal	Cyclin D1	PU447-5UP,PU447-UP,AR447-5R,AW447-50D,AR447-10R,AW447-YCD	23, 51, 116, 199
Polyclonal	CD23	PU460-5UP,PU460-UP,AR460-5R,AW460-50D,AR460-10R,AW460-YCD	23, 51, 117, 199
Polyclonal	VEGF	PU483-5UP,PU483-UP,AR483-5R,AW483-50D,AR483-10R,AW483-YCD	23, 51, 118, 199
Polyclonal	Myeloperoxidase (MPO)	PU496-5UP,PU496-UP,AR496-5R,AW496-50D,AR496-10R,AW496-YCD	24, 51, 124, 200

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Polyclonal	VIP	PU530-5UP,PU530-UP,AR530-5R,AW530-50D,AR530-10R,AW530-YCD	24, 51, 125, 200
Polyclonal	KRAS	PU751-5UP,PU751-UP,AR751-5R,AW751-50D,AR751-10R,AW751-YCD	25, 52, 133, 201
Polyclonal	CD117/c-Kit/SCF-Receptor	PU759-5UP,PU759-UP,AR759-5R,AW759-50D,AR759-10R,AW759-YCD	25, 52, 134, 201
Polyclonal	Follicle Stimulating Hormone (FSH)	PU766-5UP,PU766-UP,AR766-5R,AW766-50D,AR766-10R,AW766-YCD	25, 53, 138, 201
Polyclonal	SOX2	PU788-5UP,PU788-UP,AR788-5R,AW788-50D,AR788-10R,AW788-YCD	26, 53, 140, 201
Polyclonal	FLI1	PU798-5UP,PU798-UP,AR798-5R,AW798-50D,AR798-10R,AW798-YCD	139, 201
Polyclonal	ABCC3	PU800-5UP,PU800-UP,AR800-5R,AW800-50D,AR800-10R,AW800-YCD	26, 53, 140, 201
Polyclonal	CD27	PU912-5UP,PU912-UP,AR912-5R,AW912-50D,AR912-10R,AW912-YCD	26, 53, 140, 201
Polyclonal	CEACAM1	PU909-5UP,PU909-UP,AR909-5R,AW909-50D,AR909-10R,AW909-YCD	26, 53, 142, 201
Polyclonal	GITR	PU915-5UP,PU915-UP,AR915-5R,AW915-50D,AR915-10R,AW915-YCD	26, 53, 143, 201
Polyclonal	LAG3	PU917-5UP,PU917-UP,AR917-5R,AW917-50D,AR917-10R,AW917-YCD	26, 53, 145, 202
Polyclonal	SLAMF7	PU920-5UP,PU920-UP,AR920-5R,AW920-50D,AR920-10R,AW920-YCD	26, 53, 146, 202
Polyclonal	Catenin Delta 1 (P120)	PU706-5UP,PU706-UP,AR706-5R,AW706-50D,AR706-10R,AW706-YCD	17, 46, 65, 195
Polyclonal	human Growth Hormon (hGH)	PU707-5UP,PU707-UP,AR707-5R,AW707-50D,AR707-10R,AW707-YCD	22, 50, 109, 199
PR88	Progesterone Receptor, PR (InSite®)	MU328-5UC,MU328-UC,AM328-5M,AX328-50D,AM328-10M,AX328-YCD	25, 52, 135, 201
PS1	CD3 (T Cell)	MU322-5UC,MU322-UC,AM322-5M,AX322-50D,AM322-10M,AX322-YCD	18, 38, 39, 40, 46, 66, 195
PS2.1	pS2 Estrogen Inducible Protein	MU190-5UC,MU190-UC,AM190-5M,AX190-50D,AM190-10M,AX190-YCD	25, 52, 136, 201
QBend/10	CD34 (Endothelial Cell)	MU236-5UC,MU236-UC,AM236-5M,AX236-50D,AM236-10M,AX236-YCD	18, 47, 75, 196
R1	Inhibin-Alpha	MU446-5UC,MU446-UC,AM446-5M,AX446-50D,AM446-10M,AX446-YCD	23, 50, 113, 199
RBT-AMACR	P504S (AMACR)	NU538-5UC,NU538-UC,AN538-5M,AX538-50D,AN538-10M,AX538-YCD	25, 52, 130, 200
RCC-26	Renal Cell Carcinoma (RCC)	MU543-5UC,MU543-UC,AM543-5M,AX543-50D,AM543-10M,AX543-YCD	25, 53, 137, 201
RCK108	Cytokeratin 19	MU246-5UC,MU246-UC,AM246-5M,AX246-50D,AM246-10M,AX246-YCD	20, 48, 97, 197
RED2	MSH2	NU744-5UC,NU744-UC,AN744-5M,AY744-50D,AN744-10M,AY744-YCD	24, 51, 122, 200



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RTJ1/A2	c-erbB-3 (HER-3)	MU319-5UC,MU319-UC,AM319-5M,AX319-50D,AM319-10M,AX319-YCD	17, 48, 89, 194
SDL3D10	Beta-Tubulin III	MU177-5UC,MU177-UC,AM177-5M,AX177-50D,AM177-10M,AX177-YCD	16, 45, 60, 194
SMMS.1	Myosin Heavy Chain, Smooth Muscle	MU331-5UC,MU331-UC,AM331-5M,AX331-50D,AM331-10M,AX331-YCD	24, 51, 126, 200
Snp88	Synaptophysin	MU363-5UC,MU363-UC,AM363-5M,AX363-50D,AM363-10M,AX363-YCD	26, 53, 140, 201
SP101	c-erbB-2 (HER-2/neu)	NU752-5UC,NU752-UC,AN752-5M,AY752-50D,AN752-10M,AY752-YCD	17, 48, 88, 194
SP105	J chain	NU756-5UC,NU756-UC,AN756-5M,AY756-50D,AN756-10M,AY756-YCD	23, 50, 114, 199
SP114	Mum/IRF4	NU750-5UC,NU750-UC,AN750-5M,AY750-50D,AN750-10M,AY750-YCD	24, 51, 123, 200
SP13	Calretinin	NU747-5UC,NU747-UC,AN747-5M,AY747-50D,AN747-10M,AY747-YCD	17, 45, 64, 195
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SP144	Anaplastic Lymphoma Kinase (ALK)	NU874-5UC,NU874-UC,AN874-5M,AY874-50D,AN874-10M,AY874-YCD	16, 45, 57, 194
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SP189	CD16a	NU749-5UC,NU749-UC,AN749-5M,AY749-50D,AN749-10M,AY749-YCD	18, 46, 71, 195
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SP46	MSH2	NU743-5UC,NU743-UC,AN743-5M,AY743-50D,AN743-10M,AY743-YCD	24, 51, 121, 200
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Thyroid Stimulating Hormone (TSH)	5404(M)	26, 53, 142, 201
Thyroid Stimulating Hormone (TSH)	Polyclonal(R)	18, 46, 73, 195
Thyroxine	D5(M)	26, 53, 142, 201
ENDOMETRIOID CARCINOMA		
Vimentin	V9(M)	26, 53, 145, 202
ENDOTHELIAL VASCULAR MARKER		
CD31 (Endothelial Cell)	JC/70A(M)	18, 46, 74, 196
CD31 (PECAM-1)	9G11(M)	18, 47, 75, 196
CD34 (Endothelial Cell)	QBend/10(M)	17, 47, 75, 196
CD34	EP88(R)	18, 47, 75, 196
Factor VIII-Related antigen	F8 2.2.9(M)	21, 49, 104, 198
Factor XIII Subunit A	E980.1(M)	22, 49, 105, 198
ENZYMES		
Alpha-1-Antichymotrypsin	α1A88(M)	16,45, 55, 194
Alpha-1-Antitrypsin	Polyclonal(R)	16, 45, 58, 194
Cathepsin D	C15(M)	17, 46, 65, 195
EPITHELIAL MARKERS		
CD34 (Endothelial Cell)	QBend/10(M)	17, 47, 75, 196
Cytokeratin 4	EP4(R)	20, 48, 92, 197
Cytokeratin 4	6B10(M)	20, 48, 93, 197
Cytokeratin 6	EP67(R)	20, 49, 94, 197
Cytokeratin 8 & 18	5D3(M)	21, 49, 95, 197
Cytokeratin 18	DC-10(M)	20, 48, 97, 197
Cytokeratin Cocktail	AE1 and AE3(M)	21, 49, 98, 197
Cytokeratin cocktail, Broad Spectrum	348E12/C51/AE1(M)	21, 49, 98, 197
Cytokeratin, High MW	348E12(M)	21, 49, 98, 198
Cytokeratin, High MW (Basic)	AE3(M)	21, 49, 99, 197
Cytokeratin, Low MW	AE1(M)	21, 49, 99, 198
Cytokeratin, Pan	Lu-5(M)	21, 49, 99, 198
Cytokeratin, Pan	C11(M)	49, 99, 198
Collagen IV	COL-94(M)	20, 48, 91, 197
Ep-CAM	EP155(R)	21, 49, 102, 198
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Glomerular Epithelial Protein 1 (GLEPP-1)	5C11(M)	22, 50, 107, 198
MUC4	1G8(M)	24, 51, 122, 200
Mucin 2 (MUC2)	CCP58(M)	24, 51, 123, 200
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CD56 (Natural Killer Cell,NCAM)	NKH-1(M)	19, 47, 80, 196
FLI1	Polyclonal(R)	139, 201
EXTRACELLULAR MATRIX PROTEIN		
Collagen III	HWD1.1(M)	20, 48, 91, 197
Collagen IV	COL-94(M)	20, 48, 91, 197
Laminin	Polyclonal(R)	22, 50, 106, 198
Osteonectin	OST1(M)	24, 52, 128, 200
Nuclear Ribonucleoprotein	58-15(M)	25, 53, 127, 201
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Carcinoembryonic Antigen (CEA)	B01-94-11M-P(M)	17, 46, 64, 195
Carcinoembryonic Antigen (CEA)	CEA88(M)	17, 46, 64, 195
Carcinoembryonic Antigen (CEA)	Polyclonal(R)	16, 45, 54, 194
c-Kit/CD117	EP10(R)	17, 48, 88, 194
CD117	T595(M)	18, 46, 86, 195
CDX-2	CDX2-88(M)	20, 48, 87, 197
CD38	SP149(R)	18, 47, 75, 196
c-erbB-2 (HER-2/neu)	EP3(R)	22, 50, 89, 199
Cytokeratin 7	OV-TL12/30(M)	21, 49, 94, 197
Cytokeratin 17	E27(M)	20, 48, 96, 197
DOG1	1.1(M)	21, 49, 100, 198
Secretin	Polyclonal(R)	22, 49, 105, 198
Substance P	Polyclonal(R)	22, 49, 106, 198
SOX2	Polyclonal(R)	26, 53, 140, 201
SOX2	EP103(R)	26, 53, 139, 201
Transforming Growth Factor (TGF),Alpha	TGF88(M)	26, 53, 144, 201
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Glypican-3 (GPC3)	GPC3-88(M)	22, 50, 108, 198
CD30 (Ki-1 Antigen)	HRS-4(M)	18, 46, 74, 196
c-Kit/CD117	EP10(R)	17, 48, 88, 194
CD117	T595(M)	18, 46, 86, 195
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Placental Lactogen (hPL)	Polyclonal(R)	20, 48, 92, 197
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CD31 (PECAM-1)	9G11(M)	18, 47, 75, 196
CD34 (Endothelial Cell)	QBend/10(M)	17, 47, 75, 196
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IgA	Polyclonal(R)	21, 49, 102, 198



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IgG	IgG88(R)	23, 50, 112, 199
IgG	Polyclonal(R)	21, 49, 104, 198
IgM	IgM88(M)	23, 50, 113, 199
IgM	Polyclonal(R)	23, 51, 116, 199
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CD30 (Ki-1 Antigen)	HRS-4(M)	18, 46, 74, 196
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pS2 Estrogen Inducible Protein	PS2.1(M)	25, 52, 136, 201
Secretin	Polyclonal(R)	22, 49, 105, 198
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IgD	Polyclonal(R)	51, 116, 199
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IgM	IgM88(M)	23, 50, 113, 199
IgM	Polyclonal(R)	23, 51, 116, 199
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Kappa Light Chain	K88(M)	23, 50, 115, 199
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Lambda Light Chain	EP172(R)	23, 51, 117, 199
Lambda Light Chain	Polyclonal(R)	21, 49, 103, 198
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Hepatitis B Virus Core Antigen (HBcAg)	Polyclonal(R)	22, 50, 107, 198
Herpes Simplex Virus Type I (HSV I)	Polyclonal(R)	22, 50, 107, 198
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Alpha-Actinin	JLN20(M)	16,45, 56, 194
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Beta-Tubulin II	JDR3B8(M)	16, 45, 60, 194
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Glial Fibrillary Acidic Protein (GFAP)	Polyclonal(R)	17, 45, 64, 195
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Tau	Tau-5(M)	26, 53, 141, 201
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Bcl-2α	SP66(R)	16, 45, 58, 194
CD117/c-Kit/SCF-Receptor	Polyclonal	25, 52, 134, 201
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CD43	SP55(R)	19, 47, 77, 196
Cyclin D1	EP12(R)	20, 48, 92, 197
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Myeloid specific Antigen	BM-1(M)	24, 51, 124, 200
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Alpha-1-Antichymotrypsin	α1A88(M)	16,45, 55, 194
Alpha-1-Antitrypsin	Polyclonal(R)	16, 45, 58, 194
Alpha-Fetoprotein (AFP)	C3(M)	16,45, 56, 194
Glypican-3 (GPC3)	GPC3-88(M)	22, 50, 108, 198
HSA	HSA/E8(M)	22, 50, 111, 199
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Carcinoembryonic Antigen (CEA)	CEA88(M)	17, 46, 64, 195
Carcinoembryonic Antigen (CEA)	Polyclonal(R)	16, 45, 54, 194
CD44 (Phagocytic Glycoprotein-1,HCAM)	DF1485(M)	19, 47, 77, 196
CD66	BY114(M)	19, 47, 81, 196
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Cytokeratin 20	IT-Ks20.8(M)	20, 48, 97, 197
Cytokeratin Cocktail	AE1 and AE3(M)	21, 49, 98, 197
Cytokeratin, High MW	348E12(M)	21, 49, 98, 198
Cytokeratin, High MW (Basic)	AE3(M)	21, 49, 99, 197
Cytokeratin, Low MW	AE1(M)	21, 49, 99, 198
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Epithelial Membrane Antigen (EMA)	Mc5(M)	21, 49, 102, 198
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Fascin	FCN01(M)	22, 49, 105, 198
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Ki-67 Antigen,Proliferating Cell	Ki88(M)	23, 50, 116, 199
KRAS	Polyclonal(R)	25, 52, 133, 201
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p21/WAF1	4D10(M)	24, 52, 129, 200
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CD117	Polyclonal(R)	25, 52, 134, 201
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B Lymphocyte Antigen 36 (BLA.36)	A27-42(M)	17, 45, 57, 194
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CD21	EP64(R)	18, 46, 72, 195
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CD23	Polyclonal(R)	23, 51, 117, 199
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CDw75 (B Cell)	LN1(M)	20, 48, 87, 197
IgD	Polyclonal(R)	51, 116, 199
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CD117	T595(M)	18, 46, 86, 195
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Cyclin D1	Polyclonal(R)	23, 51, 116, 199
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J-chain	SP105(R)	23, 50, 114, 199
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Cytokeratin 5	EP42(R)	20, 48, 93, 197
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Actin, Smooth Muscle	1A4(M)	16,45, 55, 194
Alpha-Actinin	JLN20(M)	16,45, 56, 194
Caldesmon,High MW,Smooth muscle	h-CD(M)	17, 45, 63, 195
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Myosin Heavy Chains,Smooth Muscle	SMMS.1(M)	24, 51, 126, 200
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S100 beta	EP32(R)	26, 53, 138, 201
S100 Protein	Polyclonal(R)	138
S100 Protein	15E2E2(M)	25, 53, 138, 201
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CD38	SP149(R)	18, 47, 75, 196
Chromogranin A	LK2H10(M)	20, 48, 90, 197



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Chromogranin A	PHE-5(M)	20, 48, 90, 197
Neurofilament	NE-14(M)	24, 52, 126, 200
Neuron Specific Enolase (NSE)	MIG-N3(M)	24, 52, 127, 200
PGP9.5	3D9(M)	25, 52, 133, 201
Synaptophysin	Snp88(M)	26, 53, 140, 201
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CD56 (Natural Killer Cell,NCAM)	NKH-1(M)	19, 47, 80, 196
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Glial Fibrillary Acidic Protein (GFAP)	GA-5(M)	22, 50, 107, 198
Glial Fibrillary Acidic Protein (GFAP)	Polyclonal(R)	17, 45, 64, 195
Substance P	Polyclonal(R)	22, 49, 106, 198
Tau	Tau-2(M)	26, 53, 141, 201
Tau	Tau-5(M)	26, 53, 141, 201
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Claudin 1	Polyclonal(R)	48
NATURAL KILLER CELL PANEL		
CD56 (Natural Killer Cell,NCAM)	NKH-1(M)	19, 47, 80, 196
CD57 (Natural Killer Cell)	NK-1(M)	19, 47, 80, 196
OVARIAN MARKERS		
Alpha-Fetoprotein (AFP)	C3(M)	16,45, 56, 194
Bcl-2α	SP66(R)	16, 45, 58, 194
Bcl-2	E17(R)	
Bcl-2 Oncoprotein	bcl-2/100(M)	16, 45, 58, 194
CA19-9	C241:5:1:4(M)	17, 45, 62, 195
CA 125	Ov185:1(M)	17, 45, 62, 195
CD44 (Phagocytic Glycoprotein-1,HCAM)	DF1485(M)	19, 47, 77, 196
CDX-2	CDX2-88(M)	20, 48, 87, 197
Cytokeratin 5	EP24(R)	20, 48, 94, 197
Cytokeratin 5	EP42(R)	20, 48, 93, 197
Cytokeratin 7	OV-TL12/30(M)	21, 49, 94, 197
Cytokeratin, High MW	348E12(M)	21, 49, 98, 198
Cytokeratin, High MW (Basic)	AE3(M)	21, 49, 99, 197
Cytokeratin, Low MW	AE1(M)	21, 49, 99, 198
Fascin	FCN01(M)	22, 49, 105, 198
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CA19-9	C241:5:1:4(M)	17, 45, 62, 195
Carcinoembryonic Antigen (CEA)	B01-94-11M-P(M)	17, 46, 64, 195
Carcinoembryonic Antigen (CEA)	CEA88(M)	17, 46, 64, 195
Carcinoembryonic Antigen (CEA)	Polyclonal(R)	16, 45, 54, 194
CD56 (Natural Killer Cell,NCAM)	NKH-1(M)	19, 47, 80, 196
Chromogranin A	LK2H10(M)	20, 48, 90, 197
Cytokeratin 7	OV-TL12/30(M)	21, 49, 94, 197
Cytokeratin 17	E27(M)	20, 48, 96, 197
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E-Cadherin	36(M)	21, 49, 101, 198
Fascin	FCN01(M)	22, 49, 105, 198
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Insulin	EP125(R)	23, 50, 114, 199
Insulin	HB125(M)	23, 50, 114, 199
KRAS	Polyclonal(R)	25, 52, 133, 201

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Claudin 1	Polyclonal(R)	48
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EGFR	Polyclonal(R)	22, 50, 110, 199
Ki-67	K-2(M)	23, 51, 115, 199
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Ki-67 Antigen,Proliferating Cell	Ki88(M)	23, 50, 116, 199
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Bcl-2α	SP66(R)	16, 45, 58, 194
Bcl-x	EP94(R)	16, 59, 194
CD38	SP149(R)	18, 47, 75, 196
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Cytokeratin 5	EP42(R)	20, 48, 93, 197
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Cytokeratin, High MW (Basic)	AE3(M)	21, 49, 99, 197
Cytokeratin, Low MW	AE1(M)	21, 49, 99, 198
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P504S (AMACR)	RBT-AMACR(R)	25, 52, 130, 200
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Prostate Specific Antigen(PSA)	ErPr-8(M)	25, 52, 136, 201
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PSMA	SP29(R)	25, 52, 136, 201
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