

New

# Primary Antibodies

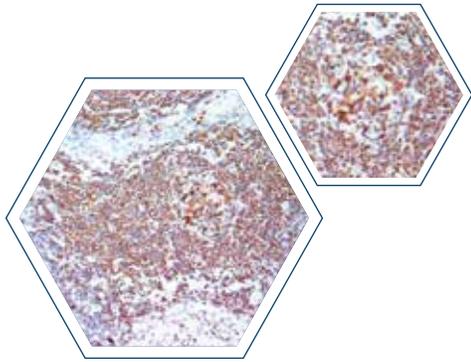
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# New Primary Antibodies



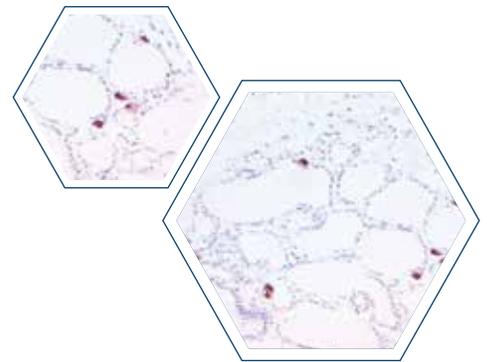
## BOB-1

BOB-1 facilitates transactivation of immunoglobulins and other B-cell specific genes through the binding and activation of the transcription factors Oct-1 and Oct-2. Expression of BOB-1/OBF-1 is restricted largely to mature

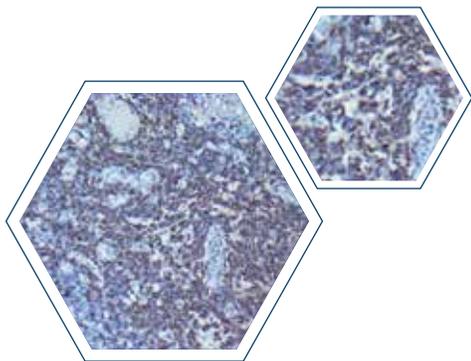
Clone	Localization	Catalog No.
SP92	Cell membrane	AN957-5M, AN957-10M, AY957-50D, AY957-YCD NU957-UC, NU957-5UC

## Calcitonin

Calcitonin (CT) is a polypeptide hormone with 32 amino acids synthesized primarily by the thyroid. Immunohistochemical staining with anti-calcitonin antibody has proven to be an effective way of demonstrating calcitonin-producing cells in the thyroid. C-cell hyperplasia and medullary thyroid carcinomas stain positive for calcitonin.



Clone	Localization	Catalog No.
SP17	Cell membrane	AN926-5M, AN926-10M, AY926-50D, AY926-YCD NU926-UC, NU926-5UC



## CD3e

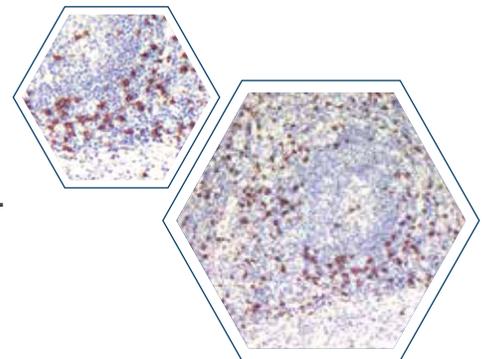
CD3e plays an essential role in correct T-cell development. Reportedly, the CD3 complex is involved in signal transduction to the T-cell interior following antigen recognition. The CD3 antigen is first detectable in early thymocytes and probably represents one of the earliest signs of commitment to the T cell lineage.

Clone	Localization	Catalog No.
C3e/1931	Cell membrane	AM931-5M, AM931-10M, AX931-50D, AX931-YCD MU931-UC, MU931-5UC

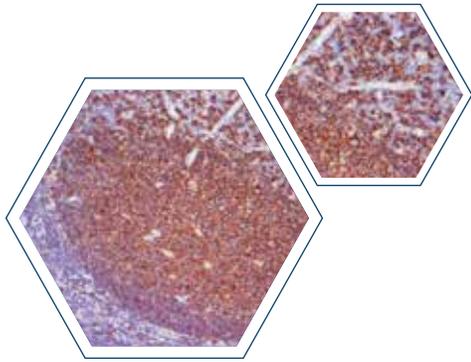
CD8 is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen acts as a coreceptor and functions either as a homodimer composed of two alpha chains (CD8 alpha/alpha) or as a heterodimer composed of one alpha and one beta chain (CD8 alpha/beta).

Clone	Localization	Catalog No.
C8/468	Cell membrane	AM929-5M, AM929-10M, AX929-50D, AX929-YCD MU929-UC, MU929-5UC

## CD8a



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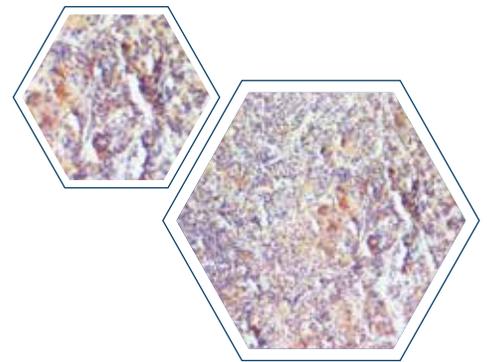
## CD20/MS4A1

The CD20, which is a 33 kDa protein that traverses the cell membrane, initially expresses on pre B-cells and retains on mature B-cells. It is a non-Ig differentiation antigen of B-cells and its expression is restricted to normal and neoplastic B-cells, being absent from all other leukocytes and tissues.

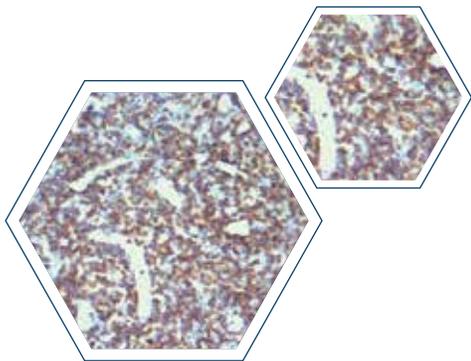
Clone	Localization	Catalog No.
IGEL/773	Cell membrane	AM947-5M, AM947-10M, AX947-50D, AX947-YCD MU947-UC, MU947-5UC

## CD30

CD30 functions as a receptor for TNFSF8/CD30L and may play a role in the regulation of cellular growth and transformation of activated lymphoblasts. In Hodgkin's disease, the CD30/Ki-1 antigen is expressed by mononuclear-Hodgkin and multinucleated Reed-Sternberg cells.



Clone	Localization	Catalog No.
EPR4102	Cell membrane	AN955-5M, AN955-10M, AY955-50D, AY955-YCD NU955-UC, NU955-5UC



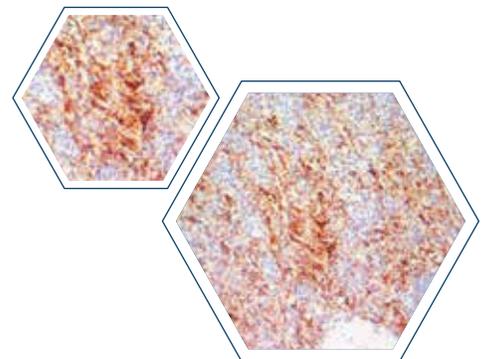
## CD45

CD45 antigen (leukocyte common antigen), a unique and ubiquitous membrane glycoprotein with a molecular mass of about 200 kDa is expressed on almost all hematopoietic cells except for mature erythrocytes. CD45 is routinely used to aid the differential diagnosis of undifferentiated neoplasms, whenever malignant lymphoma is suspected by the morphological or clinical data.

Clone	Localization	Catalog No.
2B11 & PD7/26	Cell membrane	AM941-5M, AM941-10M, AX941-50D, AX941-YCD MU941-UC, MU941-5UC

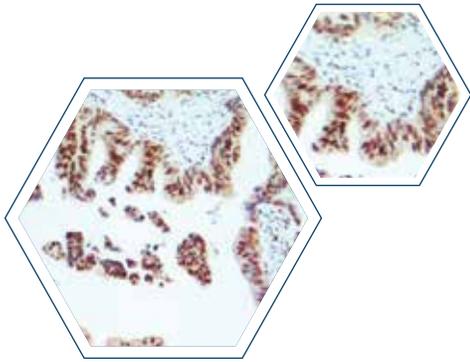
## CD61/Integrin $\beta$ 3

Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. Integrin beta 3 is found along with the alpha IIb chain in platelets. Integrins are known to participate in cell adhesion as well as cell-surface mediated signaling.



Clone	Localization	Catalog No.
ITGB3/2145	Cell membrane	AM942-5M, AM942-10M, AX942-50D, AX942-YCD MU942-UC, MU942-5UC

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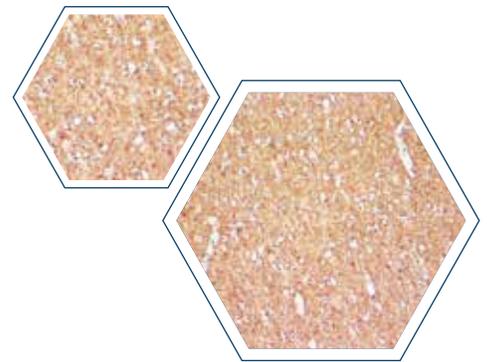
## c-Jun

c-Jun is a component of the transcription factor Activator Protein 1 (AP-1) that binds and activates transcription at TPA-responsive element (TRE/AP-1) elements and appears to be a major downstream target of the Stress-activated protein kinases/Jun amino-terminal kinases (SAPK/JNK) signaling pathway.

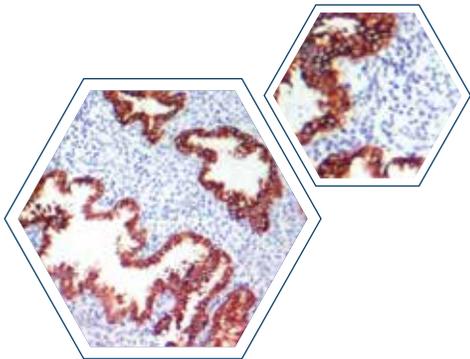
Clone	Localization	Catalog No.
4H9	Cell membrane	AM958-5M, AM958-10M, AX958-50D, AX958-YCD MU958-UC, MU958-5UC

## CNPase (Myelin)

The high CNPase expression is seen in myelin-producing cells, including oligodendrocytes and Schwann cells. CNPase participate in RNA metabolism in the myelinating cell, CNP is the third most abundant protein in central nervous system myelin; accounts for roughly 4% of the total myelin protein in the central nervous system (CNS).



Clone	Localization	Catalog No.
SMI 91	Cell membrane	AM959-5M, AM959-10M, AX959-50D, AX959-YCD MU959-UC, MU959-5UC



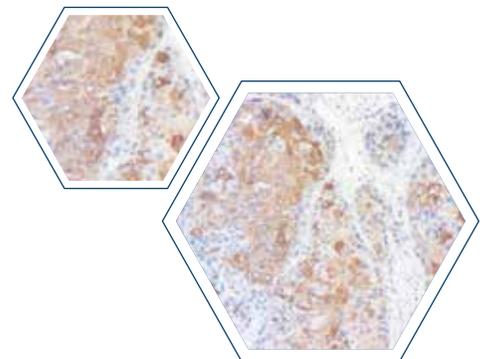
## Cytokeratin 7

Anti-Cytokeratin 7 (CK7) antibody recognizes an intermediate filament protein (IFP) of 55 kDa. This monoclonal antibody (mAb) is highly specific to cytokeratin 7 and shows no cross-reaction with other IFPs. Cytokeratin 7 is a basic cytokeratin and belongs to type II cytokeratin.

Clone	Localization	Catalog No.
KRT7/760	Cell membrane	AM944-5M, AM944-10M, AX944-50D, AX944-YCD MU944-UC, MU944-5UC

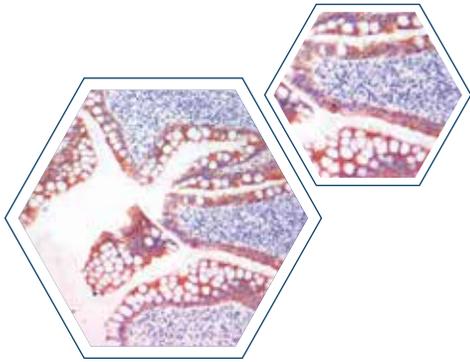
## Cytokeratin 16

Cytokeratin 16 protein is a member of the keratin (type I) family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. Cytokeratin 16 is expressed in benign stratified squamous epithelium and squamous cell carcinoma of the head and neck as well as luminal cells of mammary gland and sweat ducts.



Clone	Localization	Catalog No.
KRT16/2043R	Cell membrane	AN933-5M, AN933-10M, AY933-50D, AY933-YCD NU933-UC, NU933-5UC

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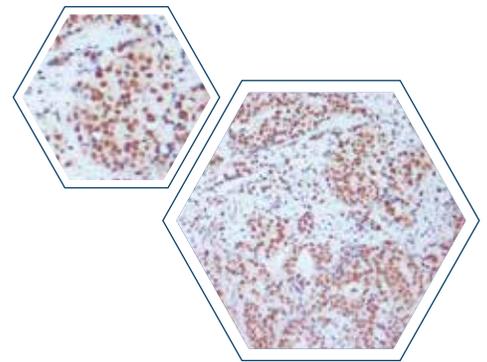
## Cytokeratin 20

This monoclonal antibody recognizes an intermediate filament protein of 46 kDa, identified as cytokeratin 20 (KRT20, CK20). CK20 is abundantly expressed in goblet cells and enterocytes of the gastrointestinal tract. It plays a significant role in maintaining keratin filament organization in intestinal epithelia.

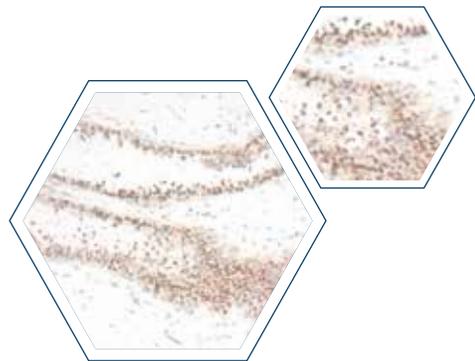
Clone	Localization	Catalog No.
KRT20/1992	Cell membrane	AM946-5M, AM946-10M, AX946-50D, AX946-YCD MU946-UC, MU946-5UC

## dsDNA

Anti-double-stranded DNA (dsDNA) monoclonal antibody (MAb) is part of a new panel of reagents which recognizes subcellular organelles or compartments of human cells. This MAb recognizes the double stranded DNA in human cells and may be useful in the identification of these organelles in cells; tissues; and biochemical preparations.



Clone	Localization	Catalog No.
121-3	Nuclear	AM934-5M, AM934-10M, AX934-50D, AX934-YCD MU934-UC, MU934-5UC



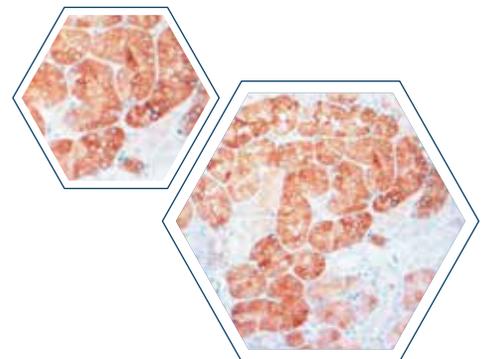
## Estrogen Receptor $\alpha$

Estrogen Receptor alpha (ER $\alpha$ ) is specific to ER alpha and shows minimal cross-reaction with other members of the family. ER is an important regulator of growth and differentiation in the mammary gland. It strongly stains nuclei of epithelial cells in breast carcinomas.

Clone	Localization	Catalog No.
ESR1/1935	Cell membrane	AM924-5M, AM924-10M, AX924-50D, AX924-YCD MU924-UC, MU924-5UC

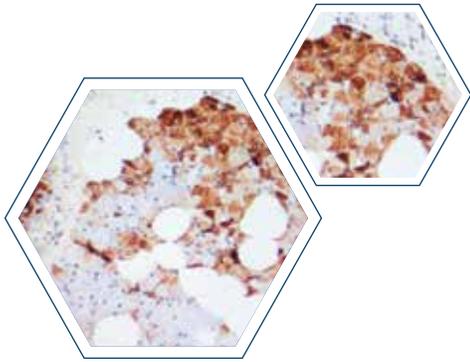
## Ferritin Light Chain

Ferritin is the major intracellular iron storage protein in prokaryotes and eukaryotes. A major function of ferritin is the storage of iron in a soluble and nontoxic state. Mammalian ferritins consist of 24 subunits made up of 2 types of polypeptide chains: ferritin heavy chain and ferritin light chain.



Clone	Localization	Catalog No.
FTL/1389	Cell membrane	AM935-5M, AM935-10M, AX935-50D, AX935-YCD MU935-UC, MU935-5UC

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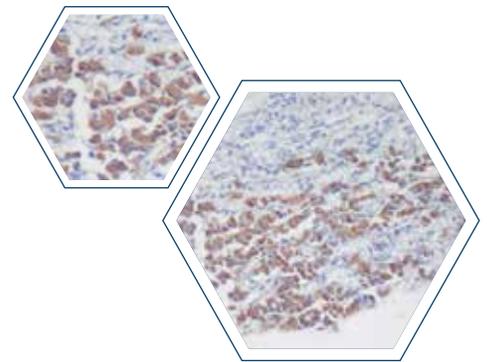
## GCDFP-15

Anti-GCDFP-15 (Gross cystic disease fluid protein 15) monoclonal antibody recognizes GCDFP-15 protein of 15 kDa. It is a major protein component of benign breast gross cysts. It is a known marker of breast cancer as it is found in approximately 50% of all breast cancer specimens. GCDFP-15, also known as prolactin-inducible protein (PIP) is a prolactin and androgen-controlled protein.

Clone	Localization	Catalog No.
PIP/1571	Cell membrane	AM953-5M, AM953-10M, AX953-50D, AX953-YCD MU953-UC, MU953-5UC

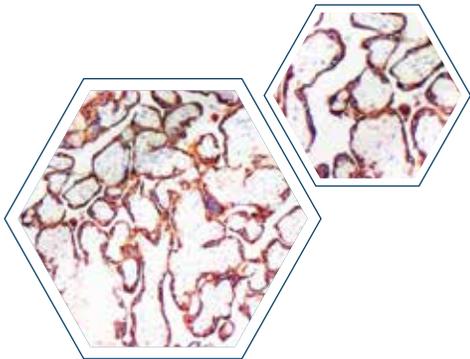
## Growth Hormone

Pituitary growth hormone (GH) plays a crucial role in stimulating and controlling the growth, metabolism, and differentiation of many mammalian cell types by modulating the synthesis of multiple mRNA species. GH is synthesized by acidophilic or somatotropic cells of the anterior pituitary gland.



Clone	Localization	Catalog No.
GH/1450	Cell membrane	AM925-5M, AM925-10M, AX925-50D, AX925-YCD MU925-UC, MU925-5UC

## HCG $\alpha$

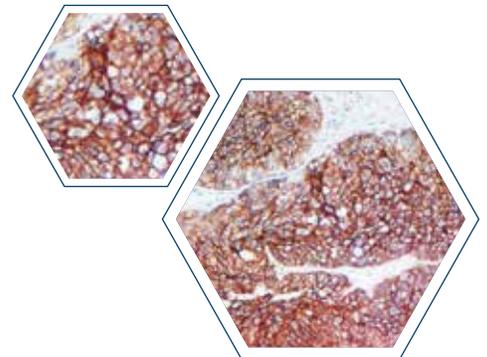


Human chorionic gonadotropin (HCG) is a glycoprotein secreted in large quantities by normal trophoblasts. The  $\alpha$  subunit is identical to that of thyroid stimulating hormone (TSH), follicle stimulating hormone (FSH), and luteinizing hormone (LH). Anti-HCG $\alpha$  reacts with a protein of approximately 13 kDa identified as a sub-unit of HCG.

Clone	Localization	Catalog No.
HCG $\alpha$ /53	Cell membrane	AM930-5M, AM930-10M, AX930-50D, AX930-YCD MU930-UC, MU930-5UC

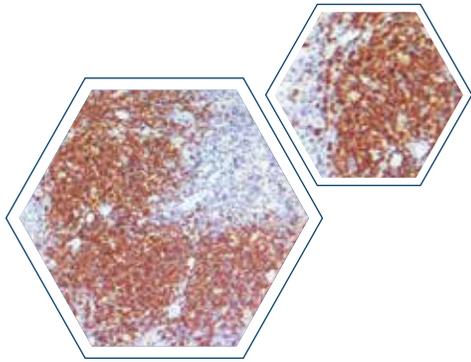
## N-cadherin

N-cadherin is a 140 kDa protein belonging to a family of transmembrane molecules that mediate calcium-dependent intercellular adhesion. Cadherins are involved in controlling morphogenetic movements during development and regulate cell surface adhesion through homotypic adhesion with the same cadherin species.



Clone	Localization	Catalog No.
5D5	Cell membrane	AM928-5M, AM928-10M, AX928-50D, AX928-YCD MU928-UC, MU928-5UC

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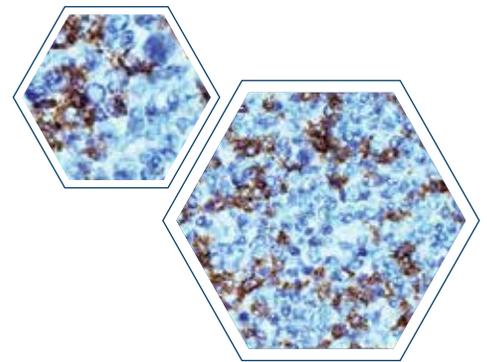
## PAX-5

Paired box transcription factors are important regulators in early development and alterations in the expression of their genes are thought to contribute to neoplastic transformation. PAX5 is the B-cell lineage specific activator protein (BSAP) that is expressed at early but not late stages of B-cell differentiation.

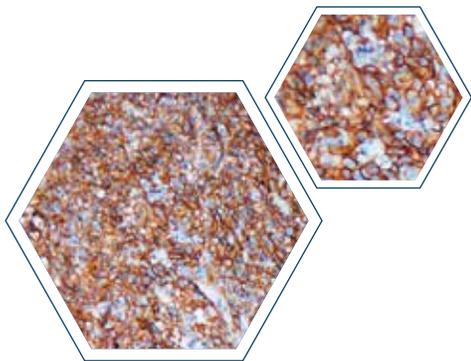
Clone	Localization	Catalog No.
24/Pax-5	Cell membrane	AM967-5M, AM967-10M, AX967-50D, AX967-YCD MU967-UC, MU967-5UC

## PD-1

PD-1, also known as programmed cell death protein 1 or CD279 (cluster of differentiation 279), is a cell surface receptor that belongs to the CD28 immunoglobulin super family 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.



Clone	Localization	Catalog No.
IHC001	Cell membrane	AM922-5M, AM922-10M, AX922-50D, AX922-YCD MU922-UC, MU922-5UC



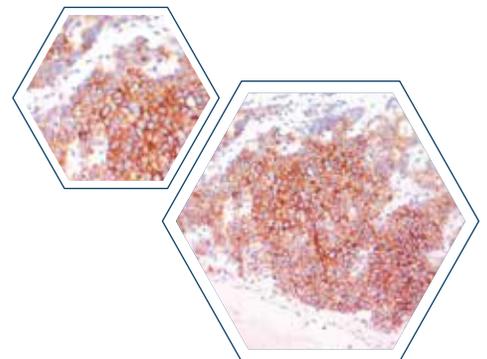
## PD-L1

PD-L1 (Programmed death ligand 1) or cluster of differentiation 274 (CD274) or B7 homolog 1 (B7-H1) is immunoglobulin-like type I trans-membrane glycoprotein that act as a ligand for programmed death 1 (PD-1). PD-L1 expression is seen on T cells, B cells, dendritic cells, and monocytes. It is critical factor in infection and disease progression of human immunodeficiency virus, sepsis, and tuberculosis.

Clone	Localization	Catalog No.
IHC411	Cell membrane	AN921-5M, AN921-10M, AX921-50D, AX921-YCD NU921-UC, NU921-5UC

## P-Tyr

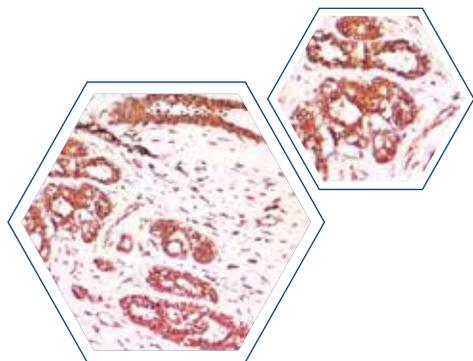
Protein phosphorylation is a fundamental event in the regulation of many intracellular processes. Phosphorylation of specific tyrosine residues is the result of activation or stimulation of their respective protein tyrosine kinases. The phosphorylated proteins can be auto phosphorylated kinases or certain cellular protein substrates.



Clone	Localization	Catalog No.
PY793	Cell membrane	AM938-5M, AM938-10M, AX938-50D, AX938-YCD MU938-UC, MU938-5UC

\*For research use only, not for use in diagnostic procedures.

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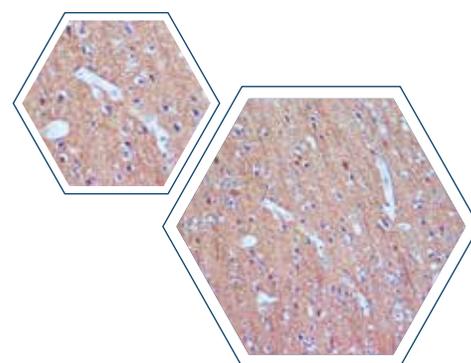
### STAT5 alpha

STAT5 alpha is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators.

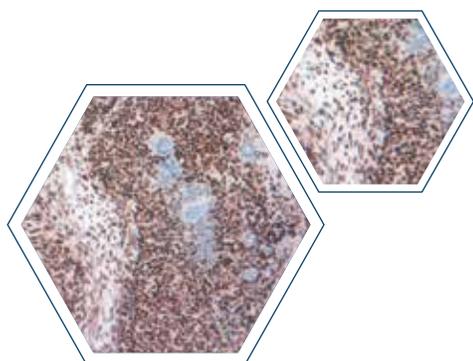
Clone	Localization	Catalog No.
6D4	Cell membrane	AM972-5M, AM972-10M, AX972-50D, AX972-YCD MU972-UC, MU972-5UC

### Tubulin $\beta$ 3

Beta tubulins are one of two core protein families (alpha and beta tubulins) that heterodimerize and assemble to form microtubules. This protein is primarily expressed in neurons and may be involved in neurogenesis and axon guidance and maintenance. Tubulin beta 3 (TUB $\beta$ 3) is also found in a wide range of tumors.



Clone	Localization	Catalog No.
TUJ1	Cell membrane	AM952-5M, AM952-10M, AX952-50D, AX952-YCD MU952-UC, MU952-5UC



### WT1

WT-1 monoclonal antibody recognizes a 47-55 kDa tumor suppressor protein, identified as Wilm's Tumor (WT1) protein. The antibody reacts with all isoforms of the full-length WT1 and also identifies WT1 lacking exon 2-encoded amino acids, frequently found in subsets of sporadic Wilm's tumors.

Clone	Localization	Catalog No.
WT1/1434R	Cell membrane	AN940-5M, AN940-10M, AY940-50D, AY940-YCD NU940-UC, NU940-5UC

### Catalog No.

Format	Pack Size	Suffix in Catalog No.
Conc. = Concentrated	1 mL and 0.5 mL	-UC, -UP and -5UC, -5UP
RTU-M = Ready-To-Use (Manual)	6 mL	-5M and -5R
RTU-i6000 = Ready-To-Use (i6000 Systems)	10 mL	-10M and 10R
RTU-Xmatrix = Ready-To-Use (Xmatrix Systems)	16 mL and 5 mL	-YCD and 50D

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## 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	16 mL	-
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

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