

Sysmex Inostics OncoBEAM™ Liquid Biopsy Services – Unparalleled Sensitivity with High Multiplexing Capabilities

We offer custom assay development and validation services

- Highly flexible: All panels can also be customized as a subset of listed genes and mutations
- Expand your panel with additional pre-developed mutations/genes by choosing from the listed “add-ons”

Please contact your local Sysmex Inostics sales representative for more information.

Single Gene Testing

If you are interested in specific genes, choose your analytes gene-wise.

AKT	ALK	AR	BRAF	EGFR	ESR1	HRAS	IDH1	IDH2	KRAS	NRAS	PIK3CA	ROS1
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Gene Panel Testing

OncoBEAM Tests	No. of Mutations	Mutations Identified and Nucleotide Changes	No. of Amplicons	Assay Validation Status
OncoBEAM Breast Cancer Panel				CLIA, GCP, RUO
AKT1	1	E17K g49a	1	
ESR1	12	E380Q, S463P, V534E, P535H, L536H, L536P, L536R, L536Q, Y537N, Y537S, Y537C, D538G g1138c, t1387c, t1601a, c1604a, t1607a, t1607c, t1607g, tc1607-08ag, t1609a, a1610c, a1610g, a1613g	3	
PIK3CA	9	C420R, E542K, E545G, E545K, Q546K, M1043I, H1047R, H1047L, H1047Y t1258c, g1624a, a1634g, g1633a, c1636a, g3129t, a3140g, a3140t, c3139t	3	
OncoBEAM Breast add ons				RUO
PIK3CA	9	R88Q, R93W*, R93Q, K111E, K111N*, G118D, E365K, C420R g263a, c277g, c277t, g278a, a331g, g333c, g333t, g353a, g1093a	3	
OncoBEAM Lung Cancer Panel 1				CLIA, RUO
BRAF	1	V600E t1799a	1	
EGFR	11	E746_A750del*, E746_S752>V, L747_A750>P, L747_T751del, L747_P753>S, T790M, C797S*, L858R, L861Q 2235-49D, 2236-50D, 2237-55Dt, 2239-48Dc, 2240-54D, 2240-57D, c2369t, t2389a, g2390c, t2573g, t2582a	3	
KRAS	10	G12S, G12R, G12C, G12D, G12A, G12V, G13D, Q61L, Q61H* g34a, g34c, g34t, g35a, g35c, g35t, g38a, a182t, a183c, a183t	2	
OncoBEAM Lung Cancer add on				RUO
BRAF	1	V600K gt1798-99aa	1	
OncoBEAM Lung Cancer Panel 2				GCP, RUO
ALK	17	1151_1152insT, L1152R, C1156Y, I1171N*, I1171T, I1171S, F1174C, F1174L, V1180L, L1196M, L1198F, G1202R, D1203N, S1206Y, G1269A, R1275Q 3453-54insACG, t3455g, g3467a, t3512a, tc3512-13at, t3512c, t3512g, t3521g, c3522a, g3538c, c3586a, c3592t, g3604a, g3607a, c3617a, g3806c, g3824a	5	
ROS1	3	G2032R, Y2092C, L2155S g6094a, a6275g, t6464c	2	

Mutations Identified Nucleotide Change

RUO (Research Use Only) | GCP (Good Clinical Practices) | CLIA (Clinical Laboratory Improvement Amendments)
*contains 2 mutations | **contains 3 mutations | ***contains 4 mutations

OncoBEAM Tests	No. of Mutations	Mutations Identified and Nucleotide Changes	No. of Amplicons	Assay Validation Status
OncoBEAM Colorectal Cancer Panel 1				CLIA, GCP, RUO
BRAF	1	V600E t1799a	1	
KRAS	15	G12S, G12R, G12C, G12D, G12A, G12V, G13D, A59T, Q61H*, Q61L, K117N*, A146T, A146V g34a, g34c, g34t, g35a, g35c, g35t, g38a, g175a, a183c, a183t, a182t, a351c, a351t, g436a, c437t	4	
NRAS	18	G12S, G12R, G12C, G12D, G12A, G12V, G13R, G13D, G13V, A59T, Q61H*, Q61R, Q61L, Q61K, K117N*, A146T g34a, g34c, g34t, g35a, g35c, g35t, g37c, g38a, g38t, g175a, a183c, a183t, a182t, a182g, c181a, g351c, g351t, g436a	3	
OncoBEAM Colorectal Cancer add ons				GCP, RUO
BRAF	1	V600K gt1798-99aa	1	
HRAS	2	Q61R, Q61L a182g, a182t	1	
OncoBEAM Colorectal Cancer Panel 2				RUO
AKT1	1	E17K g49a	1	
BRAF	2	V600E, V600K t1799a, gt1798-99aa	1	
EGFR	21	E709K, E709A, G719C, G719S, G719A, E746_A750del*, E746_T751>A, E746_S752>V, L747_A750>P*, L747_T751>P, L747_S752del, L747_T751del, L747_P753>S, T790M, C797S*, L858R, L861Q, L861R g2125a, a2126c, g2155t, g2155a, g2156c, 2235-49D, 2236-50D, 2237-51D, 2237-55Dt, 2238-48Dgc, 2239-48Dc, 2239-51Dc, 2239-56D, 2240-54D, 2240-57D, c2369t, t2389a, g2390c, t2573g, t2582a, t2582g	4	
KRAS	13	G12S, G12R, G12C, G12D, G12A, G12V, G13D, A59T, Q61H*, Q61L, A146T, A146V g34a, g34c, g34t, g35a, g35c, g35t, g38a, g175a, a183c, a183t, a182t, g436a, c437t	3	
NRAS	6	A59T, Q61H*, Q61K, Q61L, Q61R g175a, a183c, a183t, c181a, a182t, a182g	1	
PIK3CA	8	E542K, E545G, E545K, Q546K, M1043I, H1047R, H1047L, H1047Y g1624a, a1634g, g1633a, c1636a, g3129t, a3140g, a3140t, c3139t	2	
OncoBEAM Melanoma Panel				GCP, CLIA, RUO
BRAF	2	V600E, V600K t1799a, gt1798-99aa	1	
NRAS	5	Q61H*, Q61R, Q61L, Q61K c181a, a182t, a182g, a183t, a183c	1	
OncoBEAM AML/Glioma Panel				GCP, RUO
IDH1	5	R132S, R132G, R132C, R132H, R132L c394a, c394g, c394t, g395a, g395t	1	
IDH2	5	R140W, R140Q, R140L, R172K, R172M c418t, g419a, g419t, g515a, g515t	2	
OncoBEAM metastatic Castration-resistant Prostate Cancer Panel				GCP, CLIA, RUO
AR	16	L702H, L702Q***, V716M, W742L, W742C, H875Y, F877L**, T878A, T878S, M896V, M896T t2105a, ctc2104-6acc, ctc2104-6acg, ctc2104-6act, ctc2104-6aca, g2148a, g2225t, g2226t, c2623t, t2629c, c2631a, c2631g, a2632g, c2633g, a2686g, t2687c	3	
OncoBEAM Pancreatic Cancer Panel				GCP, CLIA, RUO
KRAS	10	G12S, G12R, G12C, G12D, G12A, G12V, G13D, Q61H*, Q61L g34a, g34c, g34t, g35a, g35c, g35t, g38a, a183c, a183t, a182t	2	

For research use only. Not for use in diagnostic procedures. Panel validation is based on plasma. Validation conditions can vary for different sample types.
For more information please contact your local Key Account Manager or contact us at info@sysmex-inostics.com.