

Miralys™ TurboPlex Breast Cancer Panel

This product is to be used in conjunction with MALDI HIPLEX-IHC MIRALYS™ IMAGING LABORATORY WORKFLOW document (“Miralys™ Protocol”); email support@ambergen.com for a copy.

Contents:

One (1) 22-plex Miralys™ probe mixture – store at -20°C and protect from prolonged light exposure. This panel was tested and optimized on two separate triple-positive FFPE human breast cancer tissue samples.

Directions:

1. Begin by preparing sample as per the Miralys™ Protocol, completing Steps 1 through 8.
2. Because the Miralys™ panel is pre-mixed, **perform the following in place of Step 9:**
 - a. Prior to opening probe vial:
 - Vortex for 30 seconds with a benchtop vortex
 - Centrifuge for 1 minute at full speed
 - b. Based on volume in tube as recorded on tube label, dilute to 200 µL with Tissue Blocking Buffer. Vortex for 30 seconds and centrifuge again for 1 minute each.
3. Begin again with the Miralys™ Protocol at Step 10; follow through to the end to prepare sample.
4. Image in any MSI instrument.

Target	Clone	PC-MT (Da)*	Reactivity	Concentration (µg/mL)
Actin-αSM	D4K9N	1251.67	H, M, R, Hm, Mk	1.25
CD3ε	D7A6E	1161.64	H, Mk	4.50
CD4	EPR6855	1659.85	H	5.50
CD8α	D8A8Y	1350.76	H, Mk	5.00
CD20	E7B7T	997.52	H, Mk	2.75
CD45RO	UCHL1	1420.69	H	4.50
CD68	D4B9C	1216.74	H, Mk	3.00
CD86	EP1158-37	1603.76	H	5.00
CD163	EPR19518	1613.82	H, M, R	TBD
ERα	SP1	1535.72	H	5.50
FoxP3	D2W8E	1494.82	H, Mk	4.50
GATA3	D13C9	1021.52	H, M	4.50
HER2	D8F12	1210.73	H, M	5.50
Histone H2A.X	D17A3	1226.81	H, M, R, Mk	2.50
Ki67	8D5	1320.75	H	4.50
PanCK	C11	1628.78	H, M, R, Mk	2.00
PD1 (PDCD1)	D4W2J	1524.83	H	4.50
PDGF Receptor β	28E1	1125.62	H, M, R	3.50
PDPN (Podoplanin)	LpMab-12	954.55	H	4.50
PR-A/B	D82QJ	1244.93	H	2.50
PTEN	D4.3	1132.59	H, M, R, Dg, Mk	2.50
VIM (Vimentin)	D21H3	1230.84	M, R, H, Hm, Mk	1.00

5. *PC-MT (Da) = Monoisotopic (M+H)⁺ of the mass reporter