

## Miralys™ TurboPlex Lung 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](mailto:support@ambergen.com) for a copy.

### Contents:

One (1) 23-plex Miralys™ probe mixture – store at -20°C and protect from prolonged light exposure. This panel was tested and optimized on squamous, adenocarcinoma, and small-cell lung cancer, mesothelioma, and normal FFPE human lung tissue.

### 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)
CD3ε	D7A6E	1161.64	H, Mk	4.00
CD4	EPR6855	1659.85	H	4.5
CD8α	D8A8Y	1350.76	H, Mk	5.00
CD20	E7B7T	997.52	H, Mk	1.00
CD45RO	UCHL1	1420.69	H	4.50
CD68	D4B9C	1216.74	H, Mk	2.50
CD86	EP1158-37	1603.76	H	5.00
CD163	EPR19518	1613.82	H, M, R	TBD
Chromogranin A	EPR22537-249	1477.82	H, M, R	3.75
CK5	EP1601Y	1185.64	H, M, R	0.50
CK7	SP52	1075.58	H	0.71
FoxP3	D2W8E	1494.82	H, Mk	4.50
Histone H2A.X	D17A3	1226.81	H, M, R, Mk	2.50
Ki67	8D5	1320.75	H	4.50
Napsin A	D5P6G	1386.71	H	3.75
NCAM1 (CD56)	E7X9M	970.51	H, M, R, Mk	3.75
p40	EPR17863-47	1082.59	H, M, R	5.50
PanCK	C11	1628.78	H, M, R, Mk	1.75
PD1 (PDCD1)	D4W2J	1524.83	H	4.50
PDGF Receptor β	28E1	1125.62	H, M, R	3.00
PDPN (Podoplanin)	LpMab-12	954.55	H	3.75
Synaptophysin	D8F6H	1402.67	H, M, R	4.25
TTF-1	SP141	1437.80	H, M, R	4.50

\*PC-MT (Da) = Monoisotopic (M+H)<sup>+</sup> of the mass reporter