

Miralys™ Neurology Panel

AmberGen's Miralys panels were created to provide researchers with an efficient way to run high plex MALDI-IHC experiments.

This product is to be used in conjunction with MALDI HIPLEX-IHC MIRALYS™ IMAGING LABORATORY WORKFLOW document ("Miralys™ Protocol") which has been provided. If you do not have a copy, please contact support@ambergen.com to obtain one.

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 wild-type and 5xFAD transgenic FFPE mouse brain tissue.

Target	Clone	PC-MT (Da)*	Reactivity	Concentration (µg/mL)
a/b-Synuclein	Syn205	1701.91	H, M, R	3.00
AKT	C67E7	1426.80	H, M, R, Mk, Dm	3.00
Amyloid-β42	mOC64	1770.87	H	3.75
APP	E3F3P	1722.93	H, M	5.00
β3-Tubulin	D65A4	1717.90	H, M, R	4.25
Cathepsin D	E7Z4L	1052.56	M	3.00
GFAP	E4L7M	1011.54	H, M, R	3.75
GLUT1	E4S6I	856.55	H, M, R, Mk	0.75
GSK-3β	D5C5Z	1608.86	H, M, R, Mk	5.50
Histone H2A.X	D17A3	1226.81	H, M, R, Mk	2.50
Iba-1	E4O4W	959.57	H, M, R, Mk, Hm	3.75
LC3A	D50G8	1017.58	H, M, R	0.67
Myelin Basic Protein	D8X4Q	1365.72	H, M, R	0.75
NeuN	D4G4O	1308.70	H, M, R	3.75
NF-L	C28E10	1345.73	H, M, R	0.75
Nicastrin	D4F6N	1039.57	H, M, R, Mk	3.75
pGSK-3β (Ser9)	5B3	1737.92	H, M, R, Mk	5.00
Phospho-Tau (Ser404)	D2Z4G	1201.68	H, M, R	3.00
Phospho-Tau (Thr205)	E7D3E	1747.93	H, M, R	4.50
PVALB	E8N2U	1539.78	H, M, R	2.50
Rab7	E9O7E	980.53	H, M, R, Mk	3.75
Synapsin-I	D12G5	1482.76	H, M, R	1.25

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

Directions:

1. Begin by preparing sample as per the Miralys™ Protocol, completing Steps 1 through 8.
2. Because the Miralys™ probe 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. Add 146.8 μL of Tissue Blocking Buffer to the tube to dilute. Vortex for 30 seconds and centrifuge again for 1 minute each.
3. Begin again with the Miralys™ Protocol at Step 10 and follow through to the end to prepare sample.
4. Image in any MSI instrument.