

## Miralys™ TurboPlex Neurology Panel

This product is to be used in conjunction with MALDI HIPLEX-IHC MIRALYS™ IMAGING LABORATORY WORKFLOW document (“Miralys™ Protocol”) a copy of which can be obtained by emailing [support@ambergen.com](mailto:support@ambergen.com).

### 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.

### 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) |
|----------------------|--------|-------------|-----------------|-----------------------|
| 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)<sup>+</sup> of the mass reporter