

#### DESCRIPTION

|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Mouse   |
| <b>Specificity</b>        | Detects mouse Netrin-G2a in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant mouse (rm) Netrin-G1a, rmNetrin-1, or rmNetrin-4 is observed.           |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 349724   |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse Netrin-G2a<br>Asp18-Arg504<br>Accession # NP_598007   |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|                             | <b>Recommended Concentration</b> | <b>Sample</b>  |
|-----------------------------|----------------------------------|--|
| <b>Western Blot</b>         | 1 µg/mL                          | Recombinant Mouse Netrin-G2a                                 |
| <b>Immunohistochemistry</b> | 8-25 µg/mL                       | Perfusion fixed frozen sections of mouse brain (hippocampus) |

#### PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Reconstitute at 0.5 mg/mL in sterile PBS.  |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

#### BACKGROUND

Mouse Netrin-G2a is a member of a GPI-linked Netrin subfamily that is distantly related to classical Netrins. Netrin-G2a is approximately 485 aa in length. It contains an N-terminal laminin-related region plus a heparin-binding C-terminus that ends in a GPI-linkage. The laminin-related region shows a globular type VI domain followed by three variable-length EGF-like domains. Alternate splicing generates two larger isoforms. Amino acid insertions of 59 aa and 34 aa between EGF-like motifs 1 and 2 generate Netrin-G2b and Netrin-G2c, respectively. Mature mouse Netrin-G2a shares 96% and 99% aa identity with human Netrin-G2 and the equivalent region in rat Netrin-G2b, respectively.

#### PRODUCT SPECIFIC NOTICES

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U.S. Patent # 5,565,331, 6,096,866, 6,017,714, 6,309,638, 6,670,451, and other U.S. and international patents pending.