

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human NGL-3/LRRC4B in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human LRRC3, 4, or 32 is observed.                                                                                                                                      |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 702021                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human NGL-3/LRRC4B<br>Ala47-Lys576<br>Accession # Q9NT99                                                                                                                                                            |
| <b>Conjugate</b>          | Alexa Fluor 594<br>Excitation Wavelength: 590 nm<br>Emission Wavelength: 617 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

**Immunohistochemistry** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

NGL-3 (netrin-G ligand-3), also called LRRC4B (Leu-rich repeat/LRR-containing glycoprotein 4B), is a 72 kDa (predicted) post-synaptic adhesion molecule of the LRR protein family. Mature human LRRC4B is a 678 amino acid (aa) type I transmembrane protein with a 541 aa extracellular region (aa 36-576) containing nine LRRs, a C2-type Ig-like domain, and a Thr-rich segment. Over the region used as an immunogen, human LRRC4B shares 97% aa sequence identity with mouse and rat LRRC4B. LRRC4B also shares ~55% aa identity with LRRC4C/NGL-1 and LRRC4/NGL-2, but each recognizes different ligands. LRRC4B recognition of the receptor tyrosine phosphatases LAR/PTPRF, PTPR-d and PTPR-s induces excitatory synapse formation.

#### PRODUCT SPECIFIC NOTICES

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