

Human NGL-3/LRRC4B Antibody

Monoclonal Mouse IgG_{2A} Clone # 702008 Catalog Number: MAB69191

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human NGL-3/LRRC4B in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) LRRC3, rhLRRC4, or rhLRRC32 is observed.	
Source	Monoclonal Mouse IgG _{2A} Clone # 702008	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human NGL-3/LRRC4B Ala47-Lys576 Accession # Q9NT99	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

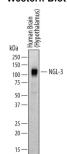
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA





Detection of Human NGL-3/LRRC4B by Western Blot. Western blot shows lysates of human brain (hypothalamus) tissue. PVDF membrane was probed with 1 μ g/mL of Mouse Anti-Human NGL-3/LRRC4B Monoclonal Antibody (Catalog # MAB69191) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for NGL-3/LRRC4B at approximately 115 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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