Human NGL-3/LRRC4B Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 702008

Catalog Number: FAB69191X

100 µg

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
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	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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