

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SLITRK5 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human SLITRK1, 2, 3, or 4 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 310516
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human SLITRK5 Glu39-Val665 Accession # O94991
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

SLITRK5 (Slit and Trk-like family member 5; also named LRR-containing protein 11) is a member of the SLITRK family of proteins (1, 2). This family currently includes six members, all of which contain a slit-like extracellular region and (save for SLITRK1) a Trk-like cytoplasmic region (3). Human SLITRK5 is a type I transmembrane (TM) protein that is 958 amino acids (aa) in length. It contains a putative 40 aa signal sequence, a 624 aa extracellular domain (ECD), a 21 aa TM segment, and a 273 aa cytoplasmic region. The ECD is characterized by the presence of two leucine-rich domains (LRD) that resemble those found in slit. Each LRD (aa 80-285 plus aa 384-579) contains seven and eight leucine-rich repeats (LRRs), respectively. Based on other LRRs, it is likely that the LRRs mediate protein-protein-interaction (4). The cytoplasmic region contains two conserved, potential phosphorylation sites at Tyr833 and Tyr917, plus a TrkA-like tyrosine phosphorylation site (YLxxL) at Tyr945. SLITRK5 is expressed on embryonic neurons of the hippocampus (pyramidal layer) and thalamus (3). Based on SLITRK2 studies, SLITRK5 will block neurite extension (3). SLITRK5 is markedly upregulated in many neurological tumors. Human SLITRK5 shares 97% and 98% aa identity with mouse and canine SLITRK5, respectively.

PRODUCT SPECIFIC NOTICES

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