

Human SLITRK5 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: BAF2587

Human	
Detects human SLITRK5 in Western blots.	
Polyclonal Goat IgG	
Antigen Affinity-purified	
Mouse myeloma cell line NS0-derived recom Glu39-Val665 Accession # O94991	binant human SLITRK5
Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.	
ions should be determined by each laboratory for each applic	cation. General Protocols are available in the Technical Information section on our website.
Recommended Concentration	Sample
	Sample Recombinant Human SLITRK5 (Catalog # 2587-SK)
Concentration	<u> </u>
Concentration 0.1 μg/mL	<u> </u>
	Detects human SLITRK5 in Western blots. Polyclonal Goat IgG Antigen Affinity-purified Mouse myeloma cell line NS0-derived recom Glu39-Val665 Accession # O94991 Lyophilized from a 0.2 µm filtered solution in

BACKGROUND

Stability & Storage

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. The exact function of the LRRs is not known. Based on other LRRs, it might be assumed that they 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). Human SLITRK5 shares 97% and 98% aa identity with mouse and canine SLITRK5, respectively.

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.

References:

- 1. Aruga, J. et al. (2003) Gene 315:87.
- 2. Nagase, T. et al. (2001) DNA Res. 8:179.
- 3. Aruga, J. and K. Mikoshiba (2003) Mol. Cell. Neurosci. 24:117.
- 4. Enkhbayar, P. et al. (2003) Proteins **54**:394.

