SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-SLITRK2/FITC Conjugated antibody

Catalog Number: SL11955R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-SLITRK2/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human SLITRK2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	ICC/IF=1:50-200 IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,GuineaPig)
Subcellular Location:	The cell membrane
Background:	background: SLITRK family proteins are integral membrane proteins that have a C-terminal domain that is partially similar to TRK neurotrophin receptor proteins and two leucine-rich repeat (LRR) domains that are similar to those of SLIT proteins. SLITRK2 (SLIT and NTRK-like protein 2) is a 845 amino acid single-pass type I membrane protein that contains 14 LRR (leucine-rich) repeats and is expressed in neural tissues, with highest levels found in adult cerebral cortex. Overexpression of SLITRK2 leads to inhibition of unipolar neurites in cultured cells, suggesting that it suppresses neurite outgrowth. Inhibitory activity of SLITRK2 is localized to its C-terminal intracellular domain and without this region the protein induces neurite outgrowth. Variants in the gene encoding SLITRK2 may contribute to the development of bipolar disorder, autism spectrum disorder and schizophrenia. There are two isoforms of SLITRK2 that are produced as a result of alternative splicing events.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Function: Suppresses neurite outgrowth. **Subcellular Location:** Membrane; Single-pass type I membrane protein **Tissue Specificity:** Expressed predominantly in the cerebral cortex of the brain but also at low levels in the spinal cord and medulla. Also expressed in some astrocytic brain tumors such as astrocytomas, oligodendrogliomas, glioblastomas, gangliogliomas and primitive neuroectodermal tumors. **Similarity:** Belongs to the SLITRK family. Contains 12 LRR (leucine-rich) repeats. Contains 2 LRRCT domains. Contains 1 LRRNT domain. **Database links:** UniProtKB/Swiss-Prot: Q9H156.1 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.