SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Marker Primary Antibody]

Rabbit Anti-SLITRK3/Biotin Conjugated antibody

Catalog Number: SL11956R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-SLITRK3/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human SLITRK3
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:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Pig,Cow,Horse,Rabbit,Sheep)
Background:	background: The leucine-rich (LRR) repeat is a 20-30 amino acid motif that forms a hydrophobic å/∫ horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRR repeats contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. SLITRK3 (SLIT and NTRK-like family, member 3) is a 977 amino acid single-pass type I membrane protein that contains 20 LRR repeats and belongs to the SLITRK family. Expressed at highest levels in cerebral cortex, SLITRK3 is also found in adult and fetal neural tissues and some astrocytic brain tumors. SLITRK3 functions to suppress neurite outgrowth and plays a role in the regulation of neuronal function. SLITRK3 is encoded by a gene that maps to human chromosome 3,

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	which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. **Function:** SLITRK3 (SLIT and NTRK-like family 3) is a member of a protein family consisting of six homologous transmembrane proteins (SLITRK1-6) that share two conserved leucine-rich repeat domains in the extracellular domain and have significant homology to SLIT secreted axonal growth-controlling protein. These proteins are also homologous to trk neurotrophin receptors in their intracellular domains. Expression of SLITRK3 proteins is highly restricted to neural and brain tumor tissues, but varies within the protein family. Like every other SLITRK protein except SLITRK1, overexpression of SLITRK3 inhibited neurite outgrowth in cultured neurons, suggesting that these proteins are involved in the control of neurite outgrowth. **Subcellular Location:** Cell Membrane; single pass type I membrane protein **Tissue Specificity:** Expressed in the occipital lobe of the cerebral cortex of the brain. Expressed at higher levels 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: O94933.2 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.