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

[Primary Antibody]

Rabbit Anti-Slitrk1 antibody

Catalog Number: SL6192R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Slitrk1
Immunogen:	KLH conjugated synthetic peptide derived from human Slitrk1: 21-120/696 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	76kDa
Subcellular Location:	The cell membrane Secretory protein
Background:	Slitrk1 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, a secreted axonal growth-controlling protein. These proteins are also homologous to trk neurotrophin receptors in their intracellular domains. Expression of Slitrk proteins is highly restricted to neural and brain tumor tissues, but varies within the family. For example, Slitrk1 is expressed primarily in mature neurons. Overexpression of Slitrk1 in transfected neuronal cells induced unipolar neurites, while expression of the other Slitrk proteins inhibited neurite outgrowth, suggesting that these proteins are involved in the control of neurite outgrowth. While Slitrk1 variants have been suggested associated with Tourette’s Syndrome, it is

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	thought to play only a minor role if at all. **Function:** Enhances neuronal dendrite outgrowth. **Subcellular Location:** Membrane; Single-pass type I membrane protein (Potential). **Tissue Specificity:** Expressed predominantly in the frontal lobe of the cerebral cortex of the brain. Also expressed in some astrocytic brain tumors such as astrocytomas, oligodendrogliomas, glioblastomas, gangliogliomas and primitive neuroectodermal tumors. DISEASE: Defects in SLITRK1 may be a cause of Gilles de la Tourette syndrome (GTS) [MIM:137580]. GTS is a neurologic disorder manifested particularly by motor and vocal tics and associated with behavioral abnormalities. Defects in SLITRK1 may be a cause of trichotillomania (TTM) [MIM:613229]. It is a neuropsychiatric disorder characterized by chronic, repetitive, or compulsive hair pulling resulting in noticeable hair loss. Affected individuals may develop physical complications and often have overlapping psychologic disorders, such as Gilles de la Tourette syndrome or obsessive-compulsive disorder. **Similarity:** Belongs to the SLITRK family. Contains 12 LRR (leucine-rich) repeats. Contains 2 LRRCT domains. Contains 2 LRRNT domains. **Database links:** **Entrez Gene:** 114798 Human **Entrez Gene:** 76965 Mouse **Entrez Gene:** 306147 Rat Omim: 609678 Human **SwissProt:** Q96PX8 Human **SwissProt:** Q810C1 Mouse **Unigene:** 415478 Human **Unigene:** 31034 Rat The Slitrk gene encodes a class of Transmembrane protein, with 6 family members, mainly expressed in the nervous system, and involved in regulating neurite outgrowth.

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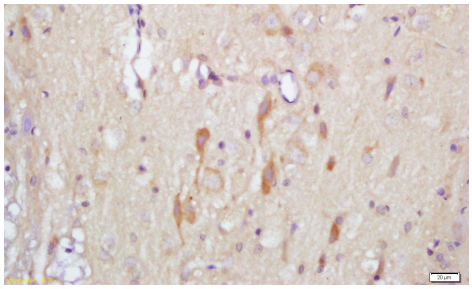
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[VALIDATION IMAGES]



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-Slitrk1 Polyclonal Antibody, Unconjugated(SL6192R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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