

## Rabbit Anti-SLITRK2 antibody

SL11955R

**Product Name** SLITRK2

**Chinese Name** 神经突触相关蛋白 SLITRK2 抗体

**Alias** CXorf2; KIAA1854; SLIK2\_HUMAN; SLIT and NTRK like protein 2; SLIT and NTRK-like protein 2; SLITL1; SLITRK 2; Slitrk2.

**Research Area** Neurobiology The cell membrane 蛋白

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** (predicted: Human, Mouse, Rat, Dog, Pig, Cow, Horse, Rabbit, Sheep, Guinea Pig, )  
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA

**Applications** (Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 93kDa

**Cellular localization** The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human SLITRK2: 311-410/845 <Extracellular>

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**PubMed** [PubMed](#)

**Product** SLITRK family proteins are integral membrane proteins that have a C-terminal domain that is par

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## Detail

TRK neurotrophin receptor proteins and two leucine-rich repeat (LRR) domains that are similar to other TRK 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 in the 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 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.

### 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. 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.

### SWISS:

Q9H156

### Gene ID:

84631

### Database links:

[Entrez Gene: 84631](#) Human

[Entrez Gene: 245450](#) Mouse

[Entrez Gene: 309349](#) Rat

[Omim: 300561](#) Human

[SwissProt: Q9H156](#) Human

[SwissProt: Q810C0](#) Mouse



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