

## Rabbit Anti-SLITRK4 antibody

SL11957R

**Product Name** SLITRK4

**Chinese Name** 神经突触相关蛋白 SLITRK4 抗体

**Alias** DKFZp547M2010; SLIK4\_HUMAN; SLIT and NTRK like family member 4; SLIT and NTRK like protein 4; SLIT and NTRK-like protein 4; Slit and trk like 4 protein; Slit and trk like gene 4; SLITRK 4; SLITRK4.

**Research Area** Tumour Cell biology Neurobiology The cell membrane 蛋白

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** (predicted: Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep, Guinea Pig, )  
IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000  
(Paraffin sections need antigen repair)

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 92kDa

**Cellular localization** The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from human SLITRK4: 251-350/837  
<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](#)

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. SLITRK4 (SLIT and NTRK-like protein 4) is a 837 amino acid single-pass type I membrane protein that contains 18 LRR (leucine-rich) repeats and is expressed in neural tissues, specifically in the thalamus, hypothalamus, subventricular zone, CA3 region of the hippocampus and cortical plate. SLITRK4 may be upregulated in some astrocytic brain tumors such as glioblastomas, astrocytomas and primitive neuroectodermal tumors. As compared with its family member SLITRK2, SLITRK4 only weakly suppresses neurite outgrowth. A study using genome-wide transcriptional profiling suggested that the gene encoding SLITRK4, as well as the ARL5B and PLA2G7 genes, may be involved in the pathogenesis of preeclampsia.

#### **Function:**

Suppresses neurite outgrowth.

#### **Subcellular Location:**

Membrane; Single-pass type I membrane protein

#### **Tissue Specificity:**

Expressed in the cerebral cortex of the brain and at higher levels in some astrocytic brain tumors such as astrocytomas, glioblastomas and primitive neuroectodermal tumors.

## Product Detail

#### **Similarity:**

Belongs to the SLITRK family.  
Contains 12 LRR (leucine-rich) repeats.  
Contains 2 LRRCT domains.  
Contains 1 LRRNT domain.

#### **SWISS:**

Q8IW52

#### **Gene ID:**

139065

#### **Database links:**

[Entrez Gene: 139065](#) Human

[Entrez Gene: 245446](#) Mouse

[Omim: 300562](#) Human

[SwissProt: Q8IW52](#) Human



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[SwissProt: Q810B8](#) Mouse