



Rabbit Anti-SLITRK3 antibody

SL11956R

Product Name SLITRK3**Chinese Name** 神经突触相关蛋白 SLITRK3 抗体**Alias** KIAA0848; SLIT and NTRK like protein 3; SLITRK 3; SLITRK 3; SLIK3_HUMAN.**Research Area** Tumour Cell biology Neurobiology The cell membrane 蛋白**Immunogen Species** Rabbit**Clonality** Polyclonal**React Species** (predicted:Human,Mouse,Pig,Cow,Horse,Rabbit,Sheep)
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** 106kDa**Cellular localization** The cell membrane**Form** Liquid**Concentration** 1mg/ml**immunogen** KLH conjugated synthetic peptide derived from human SLITRK3: 61-160/977 <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 Detail** The leucine-rich (LRR) repeat is a 20-30 amino acid motif that forms a hydrophobic α / β 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, 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.

SWISS:

O94933

Gene ID:

22865

Database links:

UniProtKB/Swiss-Prot: O94933.2