

Slitrk5 Antibody

Catalog # ASC10644

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O94991
Other Accession	O94991 , 46397810
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	107486
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Slitrk5 antibody can be used for detection of Slitrk5 by Western blot at 0.5 - 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 5 μ g/mL.

Additional Information

Gene ID	26050
Other Names	SLIT and NTRK-like protein 5, Leucine-rich repeat-containing protein 11, SLITRK5, KIAA0918, LRRC11
Target/Specificity	SLITRK5; This antibody is predicted to have no cross-reactivity to other Slitrk proteins.
Reconstitution & Storage	Slitrk5 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Slitrk5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLITRK5
Synonyms	KIAA0918, LRRC11
Function	Suppresses neurite outgrowth.
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Expressed predominantly in the cerebral cortex of the brain but also at low levels in the spinal cord and medulla

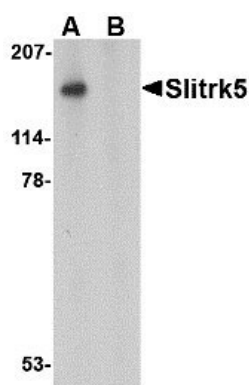
Background

Slitrk5 Antibody: SLIT and NTRK-like family 5 (Slitrk5) is a member 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 protein family. Like every other Slitrk protein except Slitrk1, overexpression of Slitrk5 inhibited neurite outgrowth in cultured neurons, suggesting that these proteins are involved in the control of neurite outgrowth.

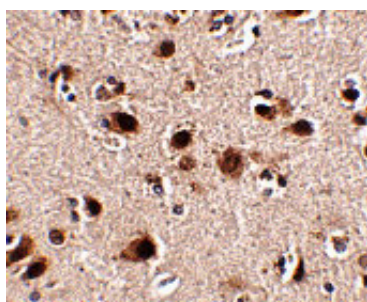
References

Aruga J and Mikoshiba K. Identification and characterization of Slitrk, a novel transmembrane protein family controlling neurite outgrowth. *Mol. Cell Neurosci.*2003; 24:117-29.
Aruga J, Yokota N, and Mikoshiba K. Human SLITRK family genes: genomic organization and expression profiling in normal and brain tumor tissue. *Gene*2003; 315:87-94.

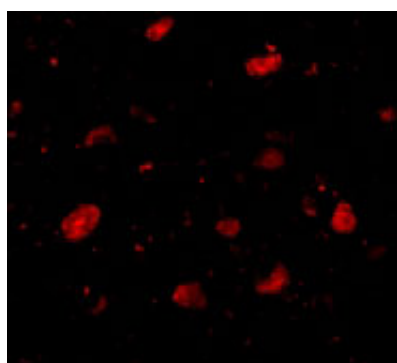
Images



Western blot analysis of Slitrk5 in 3T3 cell lysate with Slitrk5 antibody at 1 $\mu\text{g/mL}$ in the (A) absence or (B) presence of blocking peptide.



Immunohistochemistry of Slitrk4 in human brain tissue with Slitrk4 antibody at 2.5 $\mu\text{g/mL}$.



Immunofluorescence of Slitrk5 in Human Brain cells with Slitrk5 antibody at 5 $\mu\text{g/mL}$.

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