

Slitrk4 Antibody

Catalog # ASC10648

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8IW52
Other Accession	Q8IW52 , 46396931
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	94331
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Slitrk4 antibody can be used for detection of Slitrk4 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 20 μ g/mL.

Additional Information

Gene ID	139065
Other Names	SLIT and NTRK-like protein 4, SLITRK4
Target/Specificity	SLITRK4; This antibody is predicted to have no cross-reactivity to other Slitrk proteins.
Reconstitution & Storage	Slitrk4 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	Slitrk4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLITRK4
Function	It is involved in synaptogenesis and promotes synapse differentiation (PubMed: 27812321). Suppresses neurite outgrowth (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein. Cell membrane
Tissue Location	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

Background

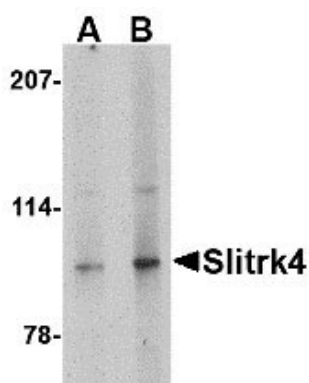
Slitrk4 Antibody: SLIT and NTRK-like family 4 (Slitrk4) is a member a protein family consisting of six homologous transmembrane proteins (Slitrk1-6) that share two conserved leucine-rich repeat domains in the extracellular domain and have significant homology to Slit, a secreted axonal growth-controlling 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 Slitrk4 inhibited neurite outgrowth in cultured neurons, suggesting that these proteins are involved in the control of neurite outgrowth.

References

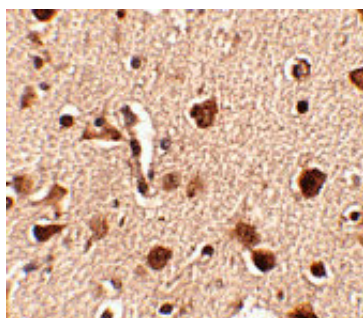
Aruga J and Mikoshiba K. Identification and characterization of Slitrk, a novel transmembrane protein family controlling neurite outgrowth. *Mol. Cell Neurosci.*2003; 24:117-29.

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.

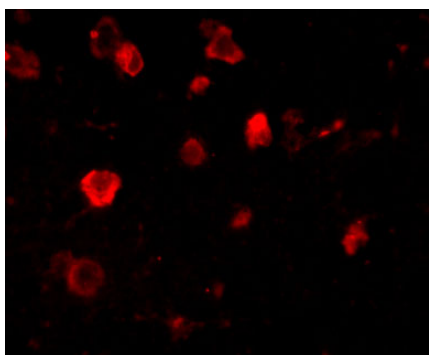
Images



Western blot analysis of Slitrk4 in mouse brain tissue lysate with Slitrk4 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemistry of Slitrk4 in human brain tissue with Slitrk4 antibody at 2.5 µg/mL.



Immunofluorescence of slitrk4 in human brain tissue with slitrk4 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.