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Slitrk6 Antibody

Catalog # ASC10646

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q9H5Y7
Other Accession	Q9H5Y7, 59803110
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	95110
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Slitrk6 antibody can be used for detection of Slitrk6 by Western blot at 0.5 - 1 g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	84189
Other Names	SLIT and NTRK-like protein 6, SLITRK6
Target/Specificity	SLITRK6; This antibody is predicted to have no cross-reactivity to other Slitrk proteins.
Reconstitution & Storage	Slitrk6 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	Slitrk6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SLITRK6
Function	Regulator of neurite outgrowth required for normal hearing and vision.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	In adult brain, highly expressed in putamen with no expression in cerebral cortex. Expressed in adult and fetal lung and fetal liver. Also expressed at high levels in some brain tumors including medulloblastomas and primitive neuroectodermal tumors

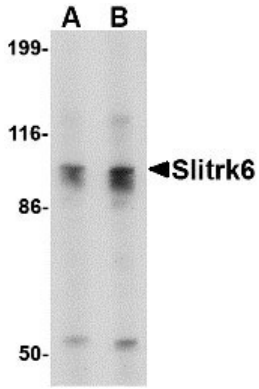
Background

Slitrk6 Antibody: SLIT and NTRK-like family 6 (Slitrk6) 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. Slitrk6 expression has been observed in tissues such as tongue, lung, gastrointestinal tract, and pancreas. Like every other Slitrk protein except Slitrk1, overexpression of Slitrk6 inhibited neurite outgrowth in cultured neurons, suggesting that these proteins are involved in the control of neurite outgrowth. At least two isoforms of Slitrk6 are known to exisit.

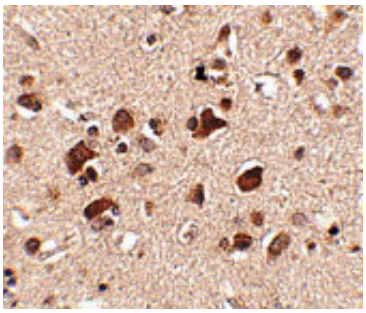
References

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. Gene2003; 315:87-94.
Aruga J. Slitrk6 expression profile in the mouse embryo and its relationship to that of Nlrr3. Gene Expr. Patterns2003; 3:727-33.

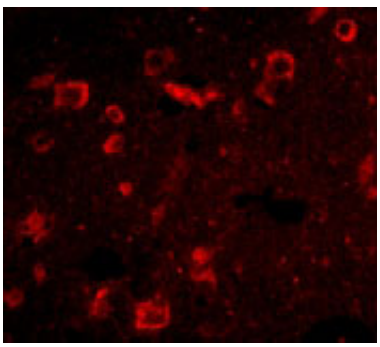
Images



Western blot analysis of Slitrk6 in SK-N-SH cell lysate with Slitrk6 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemistry of Slitrk6 in human brain tissue with Slitrk6 antibody at 2.5 µg/mL.



Immunofluorescence of Slitrk6 in Human Brain cells with Slitrk6 antibody at 20 µg/mL.

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