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Slitrk3 Antibody
Catalog # ASC10640

Specification

Slitrk3 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	O94933
Other Accession	O94933, 215273885
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**Slitrk2 antibody can be used for detection of Slitrk2 by Western blot at 0.25 and 0.5 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.**

Slitrk3 Antibody - Additional Information

Gene ID **22865**

Target/Specificity
SLITRK3; This antibody is predicted to have no cross-reactivity to other Slitrk proteins.

Reconstitution & Storage
Slitrk3 antibody can be stored at 4℃ for three months and -20℃, 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
Slitrk3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Slitrk3 Antibody - Protein Information

Name SLITRK3

Synonyms KIAA0848

Function
Suppresses neurite outgrowth.

Cellular Location
Membrane; Single-pass type I membrane protein

Tissue Location
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,

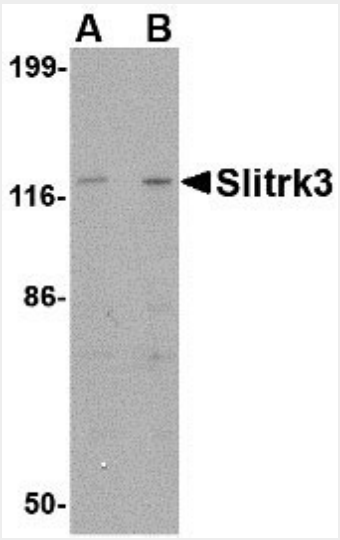
gangliogliomas and primitive neuroectodermal tumors

Slitrk3 Antibody - Protocols

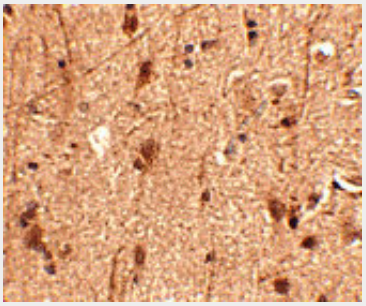
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Slitrk3 Antibody - Images

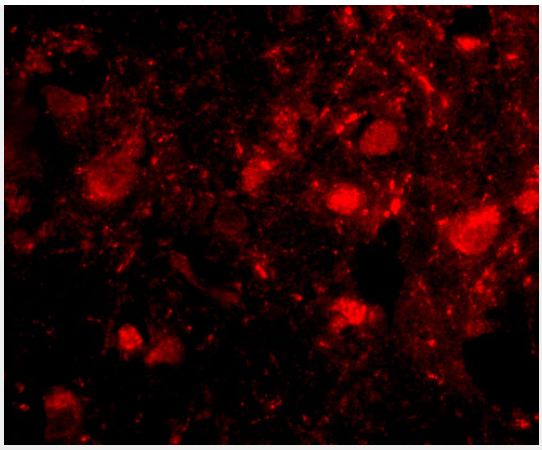


Western blot analysis of Slitrk3 in SK-N-SH cell lysate with Slitrk3 antibody at (A) 0.25 and (B) 0.5 µg/mL.



Immunohistochemistry of Slitrk3 in human brain tissue with Slitrk3 antibody at 2.5 µg/mL

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Immunofluorescence of slitrk3 in human brain tissue with slitrk3 antibody at 20 µg/mL.

Slitrk3 Antibody - Background

Slitrk3 Antibody: SLIT and NTRK-like family 3 (Slitrk3) 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 Slitrk3 inhibited neurite outgrowth in cultured neurons, suggesting that these proteins are involved in the control of neurite outgrowth.

Slitrk3 Antibody - 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.