

# Slitrk3 Antibody

Catalog # ASC10640

## Product Information

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| <b>Application</b>           | WB, IF, E, IHC-P                                                                                                                                                                                                                |
| <b>Primary Accession</b>     | <a href="#">O94933</a>                                                                                                                                                                                                          |
| <b>Other Accession</b>       | <a href="#">O94933</a> , <a href="#">215273885</a>                                                                                                                                                                              |
| <b>Reactivity</b>            | Human, Mouse                                                                                                                                                                                                                    |
| <b>Host</b>                  | Rabbit                                                                                                                                                                                                                          |
| <b>Clonality</b>             | Polyclonal                                                                                                                                                                                                                      |
| <b>Isotype</b>               | IgG                                                                                                                                                                                                                             |
| <b>Calculated MW</b>         | 108934                                                                                                                                                                                                                          |
| <b>Concentration (mg/ml)</b> | 1 mg/mL                                                                                                                                                                                                                         |
| <b>Conjugate</b>             | Unconjugated                                                                                                                                                                                                                    |
| <b>Application Notes</b>     | Slitrk2 antibody can be used for detection of Slitrk2 by Western blot at 0.25 and 0.5 $\mu$ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL. |

## Additional Information

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| <b>Gene ID</b>                      | 22865                                                                                                                                                                                                                                           |
| <b>Other Names</b>                  | SLIT and NTRK-like protein 3, SLITRK3, KIAA0848                                                                                                                                                                                                 |
| <b>Target/Specificity</b>           | SLITRK3; This antibody is predicted to have no cross-reactivity to other Slitrk proteins.                                                                                                                                                       |
| <b>Reconstitution &amp; Storage</b> | Slitrk3 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. |
| <b>Precautions</b>                  | Slitrk3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.                                                                                                                                              |

## Protein Information

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| <b>Name</b>              | SLITRK3                                                                                                                                                                                                               |
| <b>Synonyms</b>          | KIAA0848                                                                                                                                                                                                              |
| <b>Function</b>          | Suppresses neurite outgrowth.                                                                                                                                                                                         |
| <b>Cellular Location</b> | Membrane; Single-pass type I membrane protein                                                                                                                                                                         |
| <b>Tissue Location</b>   | 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 |

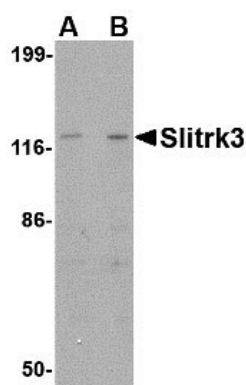
## Background

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.

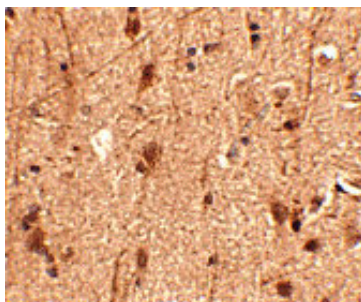
## References

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.

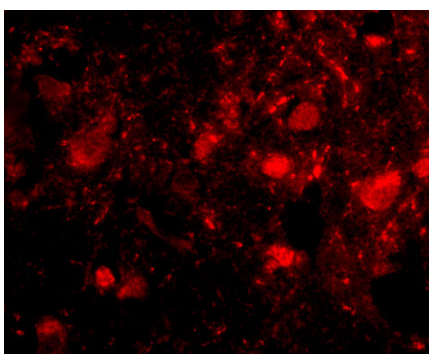
## Images



Western blot analysis of Slitrk3 in SK-N-SH cell lysate with Slitrk3 antibody at (A) 0.25 and (B) 0.5  $\mu\text{g/mL}$ .



Immunohistochemistry of Slitrk3 in human brain tissue with Slitrk3 antibody at 2.5  $\mu\text{g/mL}$



Immunofluorescence of slitrk3 in human brain tissue with slitrk3 antibody at 20  $\mu\text{g/mL}$ .

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