10320 Camino Santa Fe, Suite G
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# Slitrk4 Antibody
**Catalog # ASC10648**

## Specification

### Slitrk4 Antibody - Product Information

| | |
|---|---|
| Application | **WB, IHC, IF** |
| Primary Accession | Q8IW52 |
| Other Accession | Q8IW52, 46396931 |
| Reactivity | **Human, Mouse, Rat** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **IgG** |
| Application Notes | **Slitrk4 antibody can be used for detection of Slitrk4 by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.** |

### Slitrk4 Antibody - Additional Information

Gene ID **139065**

**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℃ 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**
Slitrk4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Slitrk4 Antibody - Protein Information

**Name** SLITRK4

**Function**
It is involved in synaptogenesis and promotes synapse differentiation (PubMed:<a href="http://www.uniprot.org/citations/27812321" target="_blank">27812321</a>). 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

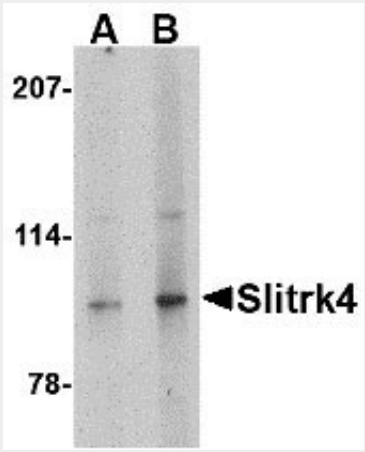
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## Slitrk4 Antibody - Protocols

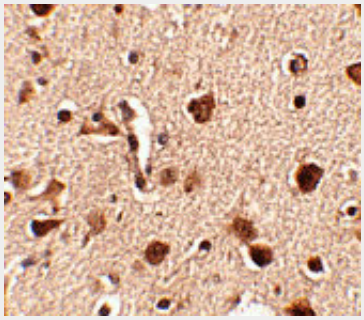
Provided below are standard protocols that you may find useful for product applications.

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

## Slitrk4 Antibody - Images

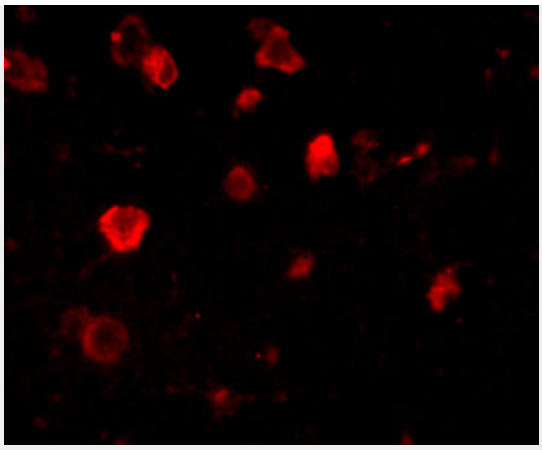



Western blot analysis of Slitrk4 in mouse brain tissue lysate with Slitrk4 antibody at (A) 0.5 and (B) 1 µg/mL.



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

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

## Slitrk4 Antibody - 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.

## Slitrk4 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.