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# SLITRK2 Rabbit pAb

SLITRK2 Rabbit pAb
Catalog # AP54684

## Product Information

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| **Application** | WB, IHC-P, IHC-F, IF |
| **Primary Accession** | Q9H156 |
| **Predicted** | Rat, Pig, Dog, Human, Mouse, Rabbit, Horse, Sheep |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 95404 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human SLITRK2 |
| **Epitope Specificity** | 311-410/845 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Membrane; Single-pass type I membrane protein |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | SLITRK family proteins are integral membrane proteins that have a C-terminal domain that is partially similar to TRK neurotrophin receptor proteins and two leucine-rich repeat (LRR) domains that are similar to those of SLIT proteins. SLITRK2 (SLIT and NTRK-like protein 2) is a 845 amino acid single-pass type I membrane protein that contains 14 LRR (leucine-rich) repeats and is expressed in neural tissues, with highest levels found in adult cerebral cortex. Overexpression of SLITRK2 leads to inhibition of unipolar neurites in cultured cells, suggesting that it suppresses neurite outgrowth. Inhibitory activity of SLITRK2 is localized to its C-terminal intracellular domain and without this region the protein induces neurite outgrowth. Variants in the gene encoding SLITRK2 may contribute to the development of bipolar disorder, autism spectrum disorder and schizophrenia. There are two isoforms of SLITRK2 that are produced as a result of alternative splicing events. |

## Additional Information

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| **Gene ID** | 84631 |
| **Other Names** | SLIT and NTRK-like protein 2, SLITRK2, CXorf2, KIAA1854, SLITL1 |
| **Dilution** | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| **Name** | SLITRK2 |
| **Synonyms** | CXorf2, KIAA1854, SLITL1 |
| **Function** | It is involved in synaptogenesis and promotes excitatory synapse differentiation (PubMed:27273464, PubMed:27812321, PubMed:35840571). Suppresses neurite outgrowth (By similarity). Involved in the negative regulation of NTRK2 (PubMed:35840571). |
| **Cellular Location** | Membrane; Single-pass type I membrane protein. Cell membrane. Cell projection, dendrite |
| **Tissue Location** | Expressed predominantly in the cerebral cortex of the brain but also at low levels in the spinal cord and medulla. Also expressed in some astrocytic brain tumors such as astrocytomas, oligodendrogliomas, glioblastomas, gangliogliomas and primitive neuroectodermal tumors. |

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