

For Research Use Only

SLIT2 Polyclonal antibody

Catalog Number: 28730-1-AP



Basic Information

Catalog Number:

28730-1-AP

Size:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG30428

GenBank Accession Number:

NM_004787

GeneID (NCBI):

9353

UNIPROT ID:

O94813

Full Name:

slit homolog 2 (Drosophila)

Calculated MW:

170 kDa

Observed MW:

100 kDa, 200 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human

Positive Controls:

WB : HEK-293 cells, HeLa cells

Background Information

SLIT2, also named as SLIT3, is thought to act as a molecular guidance cue in cellular migration, and function appears to be mediated by interaction with roundabout homolog receptors. During neural development is involved in axonal navigation at the ventral midline of the neural tube and projection of axons to different regions. SLIT1 and SLIT2 seem to be essential for midline guidance in the forebrain by acting as repulsive signal preventing inappropriate midline crossing by axons projecting from the olfactory bulb. In spinal chord development, SLIT2 may play a role in guiding commissural axons once they reached the floor plate by modulating the response to netrin. SLIT2 may be implicated in spinal chord midline post-crossing axon repulsion. In vitro, only commissural axons that crossed the midline responded to SLIT2. In the developing visual system it appears to function as repellent for retinal ganglion axons by providing a repulsion that directs these axons along their appropriate paths prior to, and after passage through, the optic chiasm. In vitro, it collapses and repels retinal ganglion cell growth cones. SLIT2 seems to play a role in branching and arborization of CNS sensory axons, and in neuronal cell migration. It seems to be involved in regulating leukocyte migration. The antibody is specific to SLIT2. Slit2 is cleaved into 140 kDa N-terminal (Slit2-N) and 55-60 kDa C-terminal (Slit2-C) fragments, although the uncleaved/full-length form(200) can also be detected.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

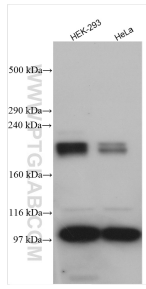
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28730-1-AP (SLIT2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.