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Datasheet for ABIN129640
anti-SLIT1 antibody (AA 487-504)

1 Image

Overview

Quantity:	100 µg
Target:	SLIT1
Binding Specificity:	AA 487-504
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLIT1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 487-504 of mouse SLIT-1 protein.
Isotype:	IgG
Cross-Reactivity:	Rat (Rattus)
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	SLIT1
Alternative Name:	SLIT-1 (SLIT1 Products)
Background:	SLIT-1 (also known as KIAA0813, MEGF4, multiple epidermal growth factor-like domains 4 and

Target Details

Slit homolog 1 protein) is a Slit protein. This protein is a ligand for the Roundabout (Robo) receptors and acts as guidance cues in axonal migration/navigation during neural development, at the ventral midline of the neural tube. Slit1 and Slit2 are essential for midline guidance in the forebrain by acting as repulsive signals preventing inappropriate midline crossing by axons projecting from the olfactory bulb. Each SLIT gene encodes a putative secreted protein, which contains conserved protein-protein interaction domains including leucine-rich repeats and epidermal growth factor-like motifs, similar to those of the Drosophila protein. In situ hybridization studies indicated that the rat SLIT-1 mRNA was specifically expressed in the neurons of fetal and adult forebrains. This data suggests that the SLIT genes form an evolutionarily conserved group in vertebrates and invertebrates, and that the mammalian SLIT proteins may participate in the formation and maintenance of the nervous and endocrine systems by protein-protein interactions. Alternative splicing isoforms have been identified for Slit1 protein.

Synonyms: KIAA0813 antibody, MEGF 4 antibody, MEGF4 antibody, Multiple epidermal growth factor-like domains 4 antibody

Gene ID: 20562, 256355216

UniProt: [Q80TR4](#)

Pathways: [Regulation of Cell Size](#)

Application Details

Application Notes: This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect multiple bands corresponding to cleavage products of SLIT-1 by western blotting in the appropriate cell lysate or extract.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.2 mg/mL

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: Sodium azide

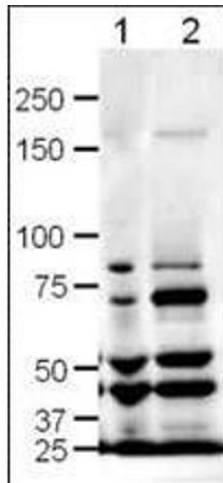
Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C

Images



Western Blotting

Image 1. Western blot using Affinity Purified anti-SLIT-1 antibody shows detection of SLIT-1 in rat (lane 1) and mouse (lane 2) brain lysates. The expected molecular weight for SLIT-1 is 168 kDa. Approximately 20 µg of each lysates was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of anti-SLIT-1 antibody. Signal was detected using standard techniques. Note: The smaller strong bands observed in this blot are likely SLIT-1 cleavage products. A number of cleavage products for both Slit1 and Slit2 are reported in the literature resulting from alternate splicing and range from ~40kDa -160kDa (see Little et al, 2002 for additional details).