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Rabbit Anti-Slit1 antibody

SL11487R

Product Name:	Slit1
Chinese Name:	多重表皮生长因子样蛋白4抗体
Alias:	MEGF 4; MEGF4; Multiple EGF like domains protein 4; Multiple epidermal growth factor like domains 4; Multiple epidermal growth factor like domains protein 4; SLIL 1; SLIL1; Slit 1; SLIT 3; Slit homolog 1; Slit homolog 1 protein; Slit-1; Slit1; SLIT3; KIAA0813; SLIT1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	164kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Slit1/MEGF4:455-500/1534
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	Secreted leucine-rich repeat-containing proteins 1-3 (Slit1-3) are secreted glycoproteins that influence axonal guidance and mediate normal neural development by acting as high-affinity signaling ligands for the repulsive guidance receptor, Roundabout (Robo) (1, 2). Within the developing central nervous system (CNS) of different vertebrate systems, Slit proteins are expressed in equivalent regions, suggesting a conserved

function among vertebrate homologs (3,4). Slit is expressed in the midline of the central nervous system in both vertebrates and invertebrates, where it functions as a regulatory factor of mesodermal cell movement during gastrulation (5). Slit2 is a short range inhibitory guidance cue for retinal ganglion cell (RGC) axons that may mediate spatial progression of RGCs (6,7).

Function:
Thought to act as molecular guidance cue in cellular migration, and function appears to be mediated by interaction with roundabout homolog receptors. During neural development involved in axonal navigation at the ventral midline of the neural tube and projection of axons to different regions (By similarity). SLIT1 and SLIT2 together 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.

Subunit:
Interacts with ROBO1 and GREM1

Subcellular Location:
Secreted.

Tissue Specificity:
Predominantly expressed in adult forebrain. Expressed in fetal brain, lung and kidney.

Similarity:
Contains 1 CTCK (C-terminal cystine knot-like) domain.
Contains 9 EGF-like domains.
Contains 1 laminin G-like domain.
Contains 20 LRR (leucine-rich) repeats.
Contains 4 LRRCT domains.
Contains 4 LRRNT domains.

SWISS:
O75093

Gene ID:
6585

Database links:

Entrez Gene: 395293 Chicken

Entrez Gene: 6585 Human

Entrez Gene: 20562 Mouse

Entrez Gene: 65047 Rat

	Entrez Gene: 380270 Xenopus laevis Omim: 603742 Human SwissProt: O75093 Human SwissProt: Q80TR4 Mouse SwissProt: O88279 Rat Unigene: 632082 Human Unigene: 40322 Mouse Unigene: 30002 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.