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[Primary Antibody]

Rabbit Anti-Slit1 antibody

Catalog Number: SL11487R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Slit1
Immunogen:	KLH conjugated synthetic peptide derived from human Slit1/MEGF4: 455-500/1534
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Dog, Cow, Horse, Rabbit, Sheep)
Predicted MW.:	164kDa
Subcellular Location:	Secretory protein
Background:	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

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	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. **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

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