SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Semaphorin 5B antibody

Catalog Number: SL11482R

FOR RESEARCH USE ONLY

[DATASHEET]

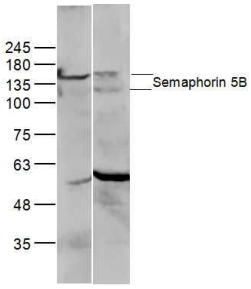
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Semaphorin 5B
Immunogen:	KLH conjugated synthetic peptide derived from human SEMA5B/Semaphorin 5B: 146-195/1151 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, (predicted: Human, Rat, Chicken, Dog, Cow, Horse, Sheep)
Predicted MW.:	126kDa
Subcellular Location:	The cell membrane
Background:	Semaphorins are a family of cell surface and secreted proteins that are conserved from insects to humans. Members of this family of proteins are approximately 750 amino acids in length (including signal sequences) and are defined by a conserved extracellular “semaphorin” domain of approximately 500 amino acids containing 14-16 cysteines, blocks of conserved sequences and no obvious repeats. Secreted and cell-bound semaphorins chemically attract and repel the growth of neural axons, guiding the development of intricate networks of neural tissue. SEMA5B (semaphorin-5B), also known as SEMAG, is a 1151 amino acid member of the semaphorin family. Localized to the membrane, SEMA5B is a single-pass type III protein that functions to convey positive axonal guidance cues and can induce calpain-mediated cleavage of calcineurin. Three isoforms exist due to alternative splicing events. **Function:** May act as positive axonal guidance cues. **Subcellular Location:** Membrane; Single-pass type III membrane protein.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Similarity: Belongs to the semaphorin family. Contains 1 PSI domain. Contains 1 Sema domain. Contains 5 TSP type-1 domains. **Database links:** **Entrez Gene:** 54437 Human Omim: 609298 Human **SwissProt:** Q9P283 Human **Unigene:** 210870 Human

[VALIDATION IMAGES]



Sample:
Testis (Mouse) Lysate at 40 ug
Cerebellum (Mouse) Lysate at 40 ug
Primary: Anti-Semaphorin 5B (SL11482R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 126 kD
Observed band size: 126/150 kD

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