SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-SEMA4B antibody

Catalog Number: SL11477R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SEMA4B
Immunogen:	KLH conjugated synthetic peptide derived from human SEMA4B: 165-210/832 <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:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Horse, Rabbit, Sheep)
Predicted MW.:	88kDa
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. The transmembrane semaphorins are characterized by an additional 80 amino acid transmembrane domain and an 80-110 amino acid cytoplasmic domain. Secreted and cell-bound semaphorins chemically attract and repel the growth of neural axons, guiding the development of intricate networks of neural

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	tissue. SEMA4B (semaphorin-4B), also known as SemC or SEMAC, is an 832 amino acid single-pass type I membrane protein that belongs to the semaphorin family and exists as two alternatively spliced isoforms. Containing one Ig-like C2-type (immunoglobulin-like) domain, a PSI domain and a single sema domain, SEMA4B is encoded by a gene located on human chromosome 15. **Function:** SEMA4B belongs to the semaphorin family and contains 1 Ig-like C2-type (immunoglobulin-like) domain, 1 PSI domain and 1 Sema domain. It inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. **Subcellular Location:** Membrane; Single-pass type I membrane protein. **Similarity:** Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 PSI domain. Contains 1 Sema domain. **Database links:** **Entrez Gene:** 488741 Dog **Entrez Gene:** 100069054 Horse **Entrez Gene:** 10509 Human **Entrez Gene:** 20352 Mouse **Entrez Gene:** 293042 Rat **SwissProt:** Q9NPR2 Human **SwissProt:** Q62179 Mouse **Unigene:** 474935 Human **Unigene:** 275909 Mouse **Unigene:** 116056 Rat

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