SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-SEMA4F antibody

Catalog Number: SL11478R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SEMA4F
Immunogen:	KLH conjugated synthetic peptide derived from human SEMA4F: 239-288/770 <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 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, Cow, Horse)
Predicted MW.:	80kDa
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. SEMA4F (semaphorin-4F), also known as SEMAM, SEMAW or PRO2353, is

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	a 770 amino acid member of the semaphorin family. Localized to the membrane, SEMA4F is a single-pass type I protein that is involved in growth cone collapse of retinal ganglion-cell axons. SEMA4F is highly expressed in postnatal brain and lung and contains one immunogloblin-like (Ig-like) domain, one PSI domain and one semaphorin domain. Two isoforms exist due to alternative splicing events. **Function:** SEMA4F has growth cone collapse activity against retinal ganglion-cell 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:** 10505 Human **Entrez Gene:** 20355 Mouse **Entrez Gene:** 29745 Rat Omim: 603706 Human **SwissProt:** O95754 Human **SwissProt:** Q9Z123 Mouse **SwissProt:** Q9Z143 Rat **Unigene:** 25887 Human **Unigene:** 270543 Mouse **Unigene:** 42885 Rat

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