



## Rabbit Anti-SEMA4B antibody

SL11477R

<b>Product Name:</b>	SEMA4B
<b>Chinese Name:</b>	Transmembrane proteinSEMA4B抗体
<b>Alias:</b>	Sema domain immunoglobulin domain (Ig) transmembrane domain (TM) and short cytoplasmic domain (semaphorin) 4B; Sema domain immunoglobulin domain (Ig) transmembrane domain (TM) and short cytoplasmic domain 4B; SEMA4B; SEMAC; Semaphorin 4B; SemC; KIAA1745; MGC131831; SEM4B HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Horse,Rabbit,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	88kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human SEMA4B:165-210/832<Extracellular>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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 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.

**SWISS:**

Q9NPR2

**Gene ID:**

10509

**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

**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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