



Rabbit Anti-Semaphorin 5B antibody

SL11482R

Product Name:	Semaphorin 5B
Chinese Name:	Transmembrane proteinSEMA5B抗体
Alias:	SEM5B_HUMAN; SEMA5B; SEMAG; Semaphorin-5B; Semaphorin 5B; Semaphorin5B; SemG.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	126kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SEMA5B/Semaphorin 5B:146-195/1151<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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.
PubMed:	PubMed
Product Detail:	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.

Similarity:

Belongs to the semaphorin family.

Contains 1 PSI domain.

Contains 1 Sema domain.

Contains 5 TSP type-1 domains.

SWISS:

Q9P283

Gene ID:

54437

Database links:

[Entrez Gene: 54437](#) Human

[Omim: 609298](#) Human

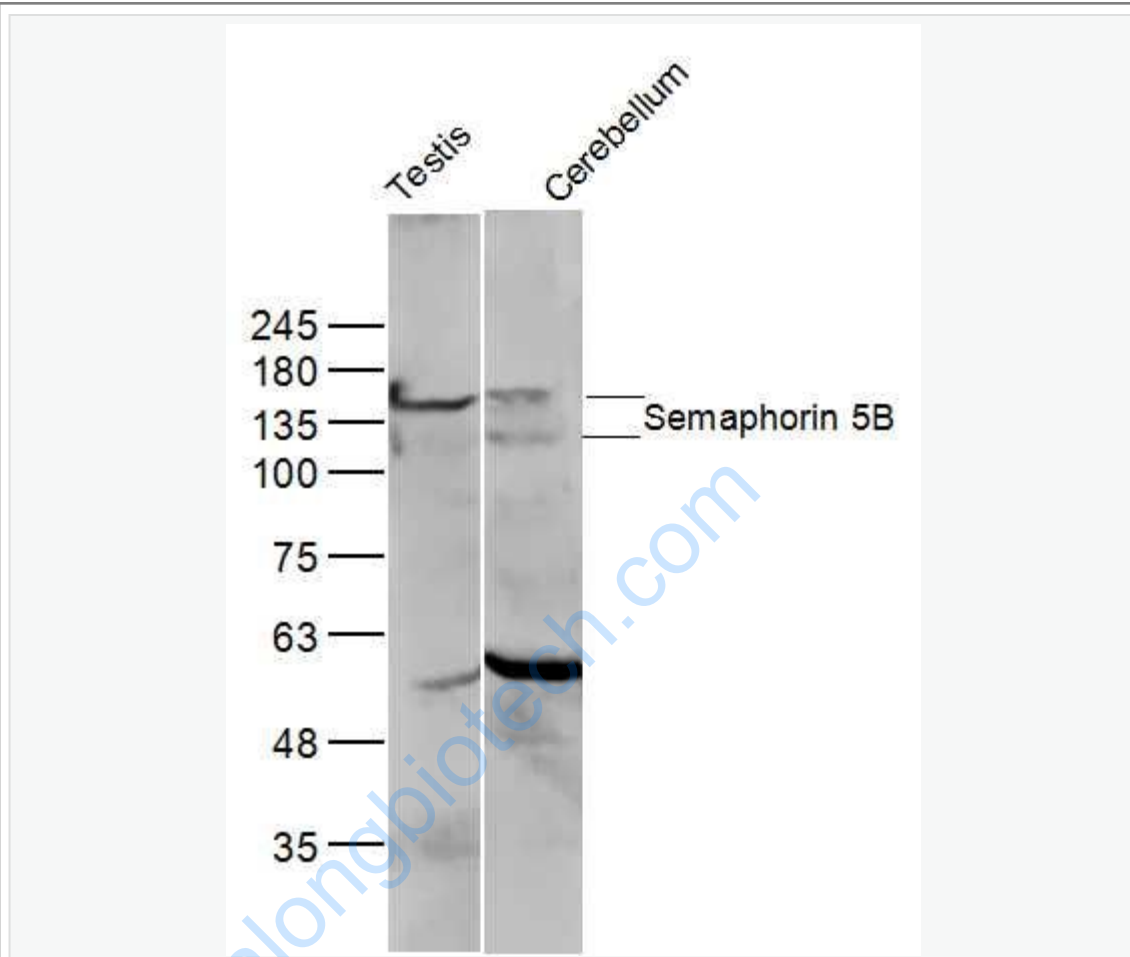
[SwissProt: Q9P283](#) Human

[Unigene: 210870](#) Human

Important Note:

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

Picture:



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