



Rabbit Anti-Sema4C antibody

SL1123R

Product Name:	Sema4C
Chinese Name:	臂板蛋白4C抗体
Alias:	Semaphorin 4C; Semaf; Semai; Semacl1; AI426163; mKIAA1739; Semaphorin F.FLJ20369; KIAA1739; M-SEMA-F; MGC126382; MGC126383; SEMACL1; SEMAI; SEM4C_HUMAN; M-SEMA-F; S4c; Sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C; SEMA4C; SEMACL1; SEMAF; SEMAI; Semaphorin-4C; UNQ5855/PRO34487.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	90kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Sema4C:751-833/833<Cytoplasmic>
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:	Members of the semaphorin protein family are involved in axonal guidance during neural development. Semaphorin 5a is thought to have a bifunctional role in axon

guidance, exerting both attractive and inhibitory effects on developing axons associated with limbic function. The thrombospondin repeats of Semaphorin 5a physically interact with both heparan sulfate proteoglycans and chondroitin sulfate proteoglycans, inducing attractive and inhibitory guidance cues, respectively. The biological responses to Semaphorin 5a are induced through binding to its high-affinity receptor, plexin B3, triggering intracellular signaling through Met.

Function:

Cell surface receptor for PLXNB2 that plays an important role in cell-cell signaling. PLXNB2 binding promotes downstream activation of RHOA and phosphorylation of ERBB2 at 'Tyr-1248'. Required for normal brain development, axon guidance and cell migration. Probable signaling receptor which may play a role in myogenic differentiation through activation of the stress-activated MAPK cascade.

Subunit:

Interacts (via the PDZ-binding motif) with GIPC (via the PDZ domain) (By similarity). Interacts with NCDN (By similarity). Interacts (via the PDZ-binding motif) with DLG4. Interacts with PLXNB2 (By similarity).

Subcellular Location:

Cell junction, synapse, postsynaptic cell membrane, postsynaptic density; Single-pass type I membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle 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:

Q13591

Gene ID:

54910

Database links:

[Entrez Gene: 54910](#) Human

[Omim: 604462](#) Human

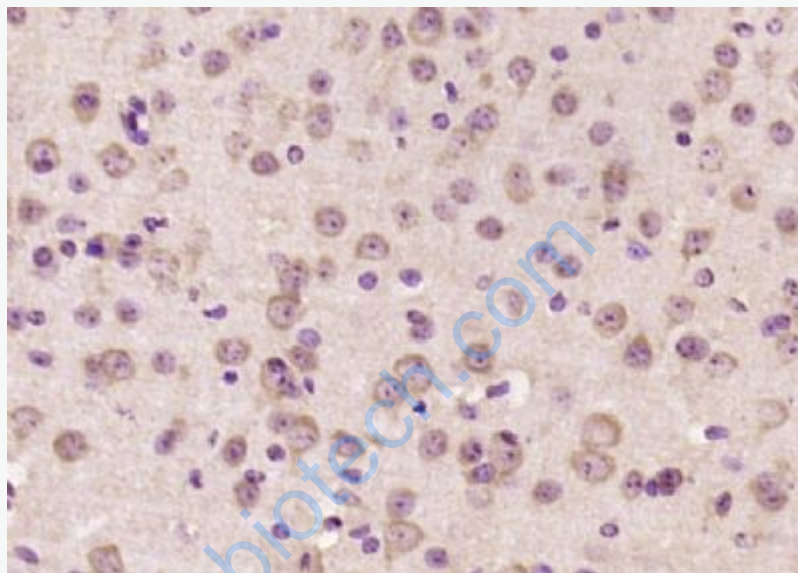
[SwissProt: Q9C0C4](#) Human

[Unigene: 516220](#) Human

Important Note:

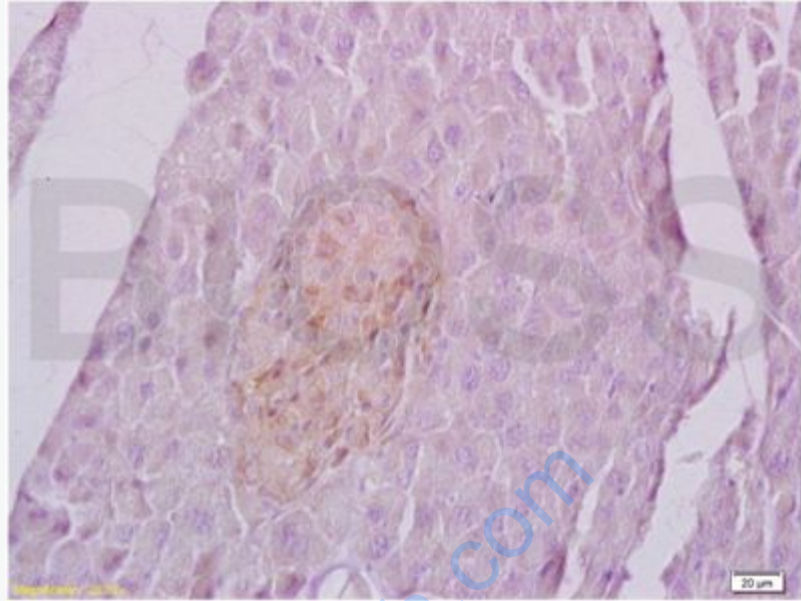
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一般认为:Sema4C及其相关蛋白在神经Stem cells中表达比较多。

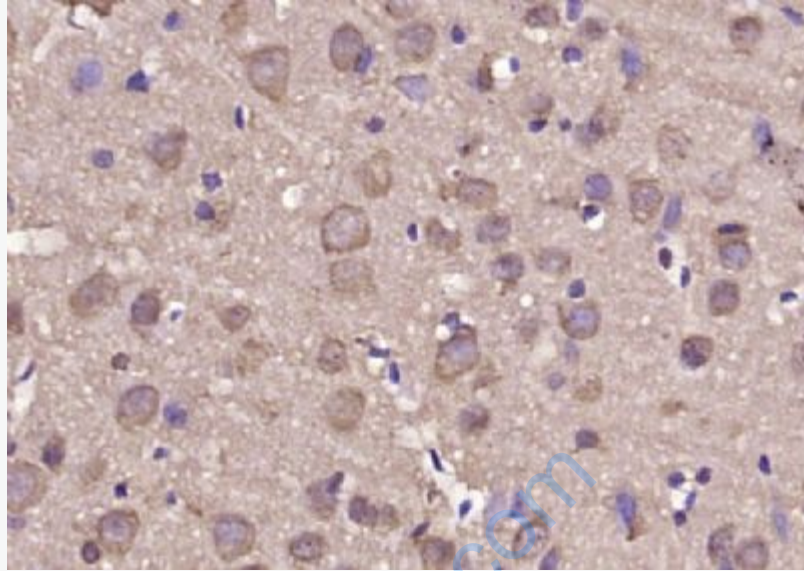


Picture:

Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Sema4C) Polyclonal Antibody, Unconjugated (SL1123R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat pancreas tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Sema4C Polyclonal Antibody, Unconjugated(SL1123R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Sema4C) Polyclonal Antibody, Unconjugated (SL1123R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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