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Sema4C Rabbit pAb

Catalog # AP98298

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9C0C4
Other Accession	Q9C0C4
Reactivity	Rat, Human, Mouse
Predicted	Pig, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92623
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Sema4C
Epitope Specificity	751-833/833
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the semaphorin family. Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 PSI domain. Contains 1 Sema domain.
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).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	54910
Other Names	M-SEMA-F; SEMACL1; SEMAF; SEMAI; SEM4C_HUMAN; SEMA4C; KIAA1739; semaphorin 4C; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C; M-Sema F
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	SEMA4C
Synonyms	KIAA1739, SEMAI
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 (By similarity). Probable signaling receptor which may play a role in myogenic differentiation through activation of the stress-activated MAPK cascade.
Cellular Location	Postsynaptic density membrane; Single-pass type I membrane protein. Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass type I membrane protein

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.