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Sema6A Rabbit pAb

Catalog # AP98382

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9H2E6
Other Accession	Q9H2E6
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	114369
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Sema6A
Epitope Specificity	301-400/1030
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 PSI domain. Contains 1 Sema domain.
SUBUNIT	Active as a homodimer or oligomer. Interacts with EVL.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SEMA6A belongs to a subfamily characterized by an extracellular semaphorin domain, a transmembrane domain, and a long cytoplasmic tail. Members of this class can repel sympathetic and dorsal root ganglion axons in vitro, consistent with a traditional role as guidance signals. However, the length of the cytoplasmic tail, which includes an EVL-binding site in SEMA6A and an Src-binding site in SEMA6B, suggests that these semaphorins may also function as receptors. SEMA6A is expressed in developing neural tissue and is required for proper development of the thalamocortical projection. SEMA6A directly links the Ena/VASP and the semaphorin protein families since the SEMA6A protein is capable of selective binding to the protein EVL (Ena/VASP-like protein.

Additional Information

Gene ID	57556
Other Names	HT018; SEMA; SEMA6A1; SEMAQ; VIA; A730020P05Rik; Sema6A-1; SEM6A_HUMAN; SEMA6A; Semaphorin VIA (Sema VIA); Semaphorin-6A-1 (SEMA6A-1); KIAA1368; SEM6A_MOUSE; Semaphorin Q (Sema Q); semaphorin 6A; sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A; sema VIa
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

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	SEMA6A
Synonyms	KIAA1368, SEMAQ
Function	Cell surface receptor for PLXNA2 that plays an important role in cell-cell signaling. Required for normal granule cell migration in the developing cerebellum. Promotes reorganization of the actin cytoskeleton and plays an important role in axon guidance in the developing central nervous system. Can act as repulsive axon guidance cue. Has repulsive action towards migrating granular neurons. May play a role in channeling sympathetic axons into the sympathetic chains and controlling the temporal sequence of sympathetic target innervation.
Cellular Location	Cell membrane; Single-pass type I membrane protein

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