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Sema3A Rabbit pAb

Catalog # AP96912

Product Information

Application	WB
Primary Accession	Q14563
Other Accession	Q14563
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	88889
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Sema3A
Epitope Specificity	111-210/772
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 with PXND1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the semaphorin family and encodes a protein with an Ig-like C2-type (immunoglobulin-like) domain, a PSI domain and a Sema domain. This secreted protein can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal pattern development. Increased expression of this protein is associated with schizophrenia and is seen in a variety of human tumor cell lines. Also, aberrant release of this protein is associated with the progression of Alzheimer's disease.

Additional Information

Gene ID	10371
Other Names	COLL1; HH16; Hsema-I; Hsema-III; SEMA1; SEMAD; SEMAIII; SEMAL; SemD; coll-1; SEM3A_HUMAN; SEMA3A; Semaphorin III (Sema III); SEM3A_MOUSE; Semaphorin-D (Sema D); Q5BL08_MOUSE; SEM3A_RAT; semaphorin 3A; sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A; sema III
Dilution	WB=1:500-2000
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	SEMA3A
Synonyms	SEMAD
Function	Involved in the development of the olfactory system and in neuronal control of puberty. Induces the collapse and paralysis of neuronal growth cones. Could serve as a ligand that guides specific growth cones by a motility-inhibiting mechanism. Binds to the complex neuropilin-1/plexin-1.
Cellular Location	Secreted.
Tissue Location	Expressed in the dorsal root ganglia.

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