

Sema3C Rabbit pAb

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Catalog # AP58493

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q99985
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Chicken, Goat, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	85207
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Sema3C
Epitope Specificity	51-150/751
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The Semaphorins constitute a large family of secreted and membrane-tethered cell signaling molecules. They have functions in neural development, immunology, cardiac growth, vascular development, lung morphogenesis and axial bone patterning. Semaphorins are defined by the presence of a conserved Sema domain at the N-terminus. These proteins can be classified into eight classes depending on their structure and species origin. Classes 3 through 7 are found in vertebrates; class 3 are secreted, class 7 are GPI-anchored and class 4 through 6 are transmembrane proteins. Two distinct transmembrane receptor families have been identified as Semaphorin receptors. Neuropilins provide binding specificity for the class 3 Semaphorins, whereas Plexins, which also contain a Sema domain serve as signaling partners for class 3 Semaphorins and as functional receptors for transmembrane Semaphorins. Semaphorin 3c inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. It is expressed maximally between days E10-12 with moderate levels from day E13 until birth.

Additional Information

Gene ID	10512
Other Names	Semaphorin-3C, Semaphorin-E, Sema E, SEMA3C, SEMAE
Dilution	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.
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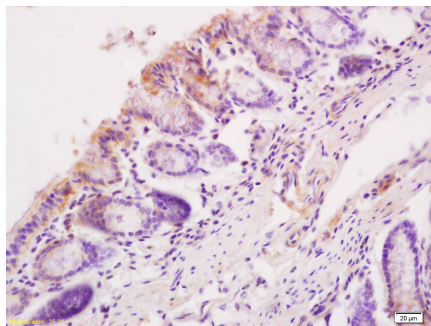
Protein Information

Name	SEMA3C
Synonyms	SEMAE
Function	Binds to plexin family members and plays an important role in the regulation of developmental processes. Required for normal cardiovascular development during embryogenesis. Functions as attractant for growing axons, and thereby plays an important role in axon growth and axon guidance (By similarity).
Cellular Location	Secreted.
Tissue Location	Expressed intensely in the heart, skeletal muscle, colon, small intestine, ovary, testis, and prostate. Faint expression ubiquitously among other organs, including brain

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Images



Tissue/cell: mouse intestine 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-Sema3C/Semaphorin 3c Polyclonal Antibody, Unconjugated(AP58493) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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