10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SEMA6A Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2740b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9H2E6
Other Accession	O35464
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15097
Calculated MW	114369
Antigen Region	998-1028

Additional Information

Gene ID	57556
Other Names	Semaphorin-6A, Semaphorin VIA, Sema VIA, Semaphorin-6A-1, SEMA6A-1, SEMA6A, KIAA1368, SEMAQ
Target/Specificity	This SEMA6A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 998-1028 amino acids from the C-terminal region of human SEMA6A.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SEMA6A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

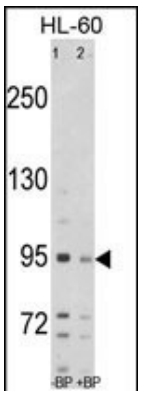
Background

SEMA6A can act as repulsive axon guidance cues. It may play a role in channeling sympathetic axons into the sympathetic chains and controlling the temporal sequence of sympathetic target innervation.

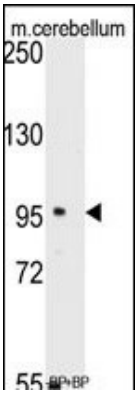
References

Prislei,S., Mol. Cancer Ther. 7 (1), 233-241 (2008)
Katoh,M., Int. J. Mol. Med. 20 (3), 405-409 (2007)
Gautier,G., Am. J. Pathol. 168 (2), 453-465 (2006)

Images

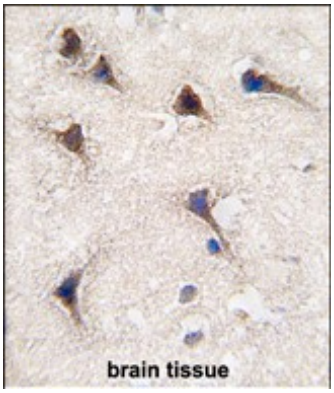


Western blot analysis of SEMA6A Antibody (C-term) Pab (Cat. #AP2740b) pre-incubated without(lane 1) and with(lane 2) blocking peptide in HL-60 cell line lysate. SEMA6A (arrow) was detected using the purified Pab.



Western blot analysis of anti-SEMA6A Antibody (C-term)(Cat.#AP2740b) pre-incubated with(right lane) and without(left lane) blocking peptide in mouse cerebellum tissue lysate. SEMA6A (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human brain tissue reacted with SEMA6A antibody (C-term) (Cat.#AP2740b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Citations

- The extracellular SEMA domain attenuates intracellular apoptotic signaling of semaphorin 6A in lung cancer cells.

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