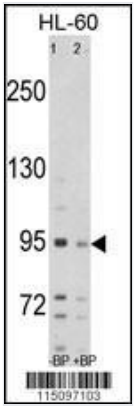
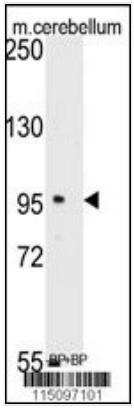
SEMA6A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SEMA6A, Polyclonal Antibody
Full Product Name	SEMA6A, CT (Semaphorin-6A, Semaphorin VIA, Sema VIA, Semaphorin-6A-1, SEMA6A-1, KIAA1368, SEMAQ) (HRP)
Product Gene Name	anti-SEMA6A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human SEMA6A.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates.
Molecular Weight	116,336 Da
3D Structure	ModBase 3D Structure for Q9H2E6
Immunogen	Synthetic peptide selected from the C-terminal region of human SEMA6A (KLH).
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-SEMA6A antibody	Antibodies; Plexin; Semaphorin
Applications Tested/Suitable for anti-SEMA6A antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-SEMA6A antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-SEMA6A antibody	MBS6498751 is an antibody targeting SEMA6A. Also known as SEMA6A, CT (Semaphorin-6A, Semaphorin VIA, Sema VIA, Semaphorin-6A-1, SEMA6A-1, KIAA1368, SEMAQ) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-SEMA6A antibody	1. Prislei, S., Mol. Cancer Ther. 7(1), 233-241 (2008). 2. Katoh, M., Int. J. Mol. Med. 20(3), 405-409 (2007). 3. Gautier, G., Am. J. Pathol. 168(2), 453-465 (2006).
Other Notes	Small volumes of anti-SEMA6A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



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



Immunohistochemistry (IHC) of anti-SEMA6A antibody
Formalin-fixed and paraffin-embedded human brain tissue reacted with SEMA6A antibody (C-term), 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SEMA6A. It may not necessarily be applicable to this product.

NCBI GI #	11991660
NCBI GeneID	57556
NCBI Accession #	NP_065847
UniProt Primary Accession #	Q9H2E6
UniProt Secondary Accession #	Q9P2H9
UniProt Related Accession #	Q9H2E6
GenBank Nucleotide #	NM_020796
NCBI Official Full Name	semaphorin-6A isoform 2
NCBI Official Synonym Full Names	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
NCBI Official Symbol	SEMA6A
NCBI Official Synonym Symbols	VIA; SEMA; HT018; SEMAQ; SEMA6A1
UniProt Protein Name	Semaphorin-6A
UniProt Synonym Protein Names	Semaphorin VIA; Sema VIA; Semaphorin-6A-1; SEMA6A-1

Protein Family	Semaphorin
UniProt Gene Name	SEMA6A
UniProt Synonym Gene Names	KIAA1368; SEMAQ; Sema VIA; SEMA6A-1
NCBI Protein Information	semaphorin-6A; SEMA6A-1; sema VIa; semaphorin 6A-1; semaphorin VIA; semaphorin-6A-1
UniProt Comments for SEMA6A	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 ().
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