

Rabbit Semaphorin-6A Polyclonal Antibody | anti-SEMA6A antibody

Semaphorin-6A (a.a. 772-787)

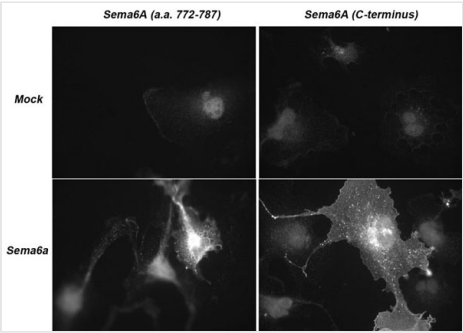
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71554	Rabbit	Human, Rat, Mouse, Chicken, Frog	Immunoprecipitation, ELISA, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

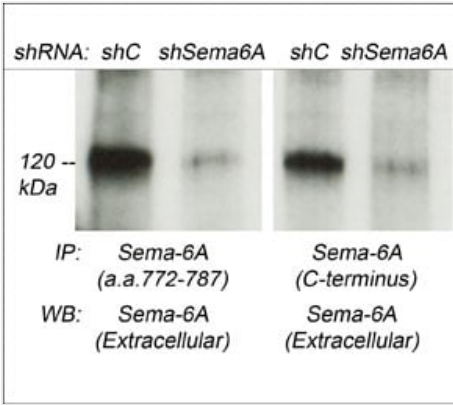
Semaphorin-6A; Polyclonal Antibody; Semaphorin-6A (a.a. 772-787); Semaphorin VIA; Sema VIA; SEMA6A-1; KIAA1368; SEMAQ; anti-SEMA6A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse, Chicken, Frog
Clonality	Polyclonal
Specificity	This antibody was affinity purified using Semaphorin 6A (a.a. 772-787) peptide (without carrier). The antibody detects a 120kDa* protein corresponding to the apparent molecular mass of Sema-6A on SDS-PAGE immunoblots of Sema-6A transfected COS7 cells, human colorectal cancer cells, and rat PC12 cells. In addition, shRNA knockdown of Sema-6A expression significantly reduces detection of Sema-6A using anti-Sema-6A (a.a. 772-787) antibody.
Purity/Purification	Affinity Purified
Form/Format	Supplied in 100ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Sequence Length	1030
Applicable Applications for anti-SEMA6A antibody	IP (Immunoprecipitation), ELISA, ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Semaphorin 6A synthetic peptide (coupled to carrier protein) corresponding to amino acids 772 to 787 in the cytoplasmic region of human Sema-6A. The sequence used has high homology to similar regions in rat and mouse Sema-6A, and has low homology to other semaphorin family members.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.



ICC (Immunocytochemistry)
Immunocytochemical labeling of Sema-6A in COS7 cells that were mock transfected (top images) or Sema-6A transfected (bottom images). The cells were labeled with anti-Sema-6A (a.a. 772-787) (Left top and bottom image) or anti-Sema-6A (C-terminus) (Right top and bottom image). The antibodies were detected using anti-rabbit fluorescent secondary antibody. (Images provided by Dr. Luca Tamagnone from the IRCC, University of Torino, Italy).



WB (Western Blot)
Western blot of Sema-6A in human colorectal cancer (CRC) cells treated with control (shC) or Sema-6A (shSema6A) shRNAs. Sema-6A was immunoprecipitated from each of the CRC lysates using Sema-6A (a.a. 772-787) or Sema-6A (C-terminus) antibody, then the blotted immunoprecipitations were probed with Sema-6A antibody. (Images provided by Dr. Luca Tamagnone from the IRCC, Univ. of Torino, Italy).

ADDITIONAL INFORMATION

Related Product Information for anti-SEMA6A antibody	The Semaphorin family of axon guidance molecules includes secreted, transmembrane, and GPI-anchored extracellular molecules that have been implicated in neuron development, vascular disease, and tumor progression. There are eight classes of semaphorin genes, all of which are characterized by a conserved 500 amino acid, cystine-rich Sema domain. Semaphorin 6A (Sema-6A) is a single-pass type I membrane protein that contains a plexin-semaphorin-integrin (PSI) domain and a Sema domain. Sema-6A is active as a homodimer or oligomer. The Sema-6A homodimer interacts with a Plexin A2 homodimer. Sema-6a promotes reorganization of the actin cytoskeleton to regulate normal granule cell migration in the developing cerebellum and to control axon guidance in the developing central nervous system. In addition, Sema-6a has been implicated in oligodendrocyte myelination and may alter VEGF signaling during angiogenesis.
References	Xu, X.M. (2000) J Neurosci. 20(7):2638. Bernard, F. et al. (2012) Glia. 60(10):1590. Segarra, M. et al. (2012) Blood. 120(19):4104.

NCBI AND UNIPROT INFORMATION

NCBI GI #	11991660
NCBI GeneID	57556
NCBI Accession #	NP_065847.1
NCBI GenBank Nucleotide #	NM_020796.4
UniProt Accession #	Q9H2E6
Molecular Weight	120 kDa
NCBI Official Full Name	semaphorin-6A isoform 2
NCBI Official Synonym Full Names	semaphorin 6A
NCBI Official Symbol	SEMA6A
NCBI Official Synonym Symbols	VIA; SEMA; HT018; SEMAQ; SEMA6A1
NCBI Protein Information	semaphorin-6A
UniProt Protein Name	Semaphorin-6A
UniProt Gene Name	SEMA6A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/semaphorin-6a-antibody-immunoprecipitation-immunocytochemistry-western-blot-elisa/71554>