

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

Semaphorin-6A (C-terminus)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71553	Rabbit	Human, Rat, Mouse, Chicken	Immunoprecipitation, ELISA, Immunocytochemistry, Western Blot

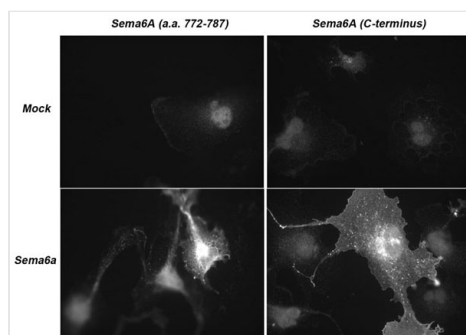
PRODUCT SYNONYMS

Semaphorin-6A; Polyclonal Antibody; Semaphorin-6A (C-terminus); Semaphorin VIA; Sema VIA; SEMA6A-1; KIAA1368; SEMAQ; anti-SEMA6A antibody

PRODUCT SPECIFICATIONS

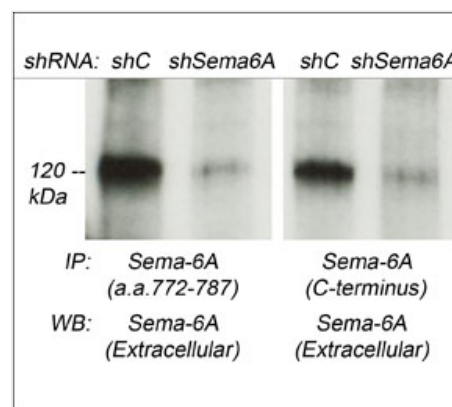
Host	Rabbit
Reactivity	Human, Rat, Mouse, Chicken
Clonality	Polyclonal
Specificity	This antibody was affinity purified using Semaphorin 6A (C-terminus) peptide (without carrier). The antibody detects a 120kDa* protein corresponding to the apparent molecular mass of Sema-6A on SDS-PAGE immunoblots of 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 (C-terminus) 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 in the C-terminus of human Sema-6A. The sequence used is identical 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.

IMAGES



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
UniProt Synonym Gene Names	KIAA1368; SEMAQ; Sema VIA; SEMA6A-1

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/71553>