

Rabbit anti-Human SEMA4A Polyclonal Antibody | anti-SEMA4A antibody

Anti-SEMA4A Antibody, Rabbit Polyclonal

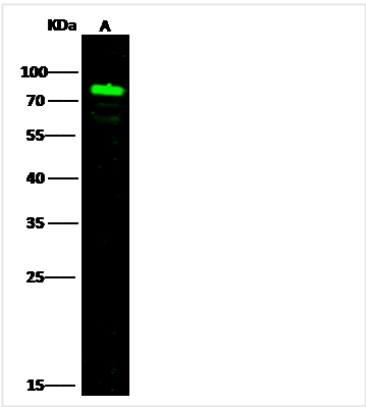
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255467	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

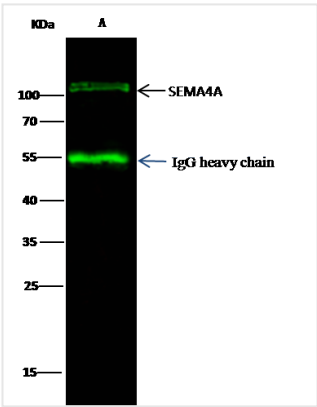
SEMA4A; Polyclonal Antibody; Anti-SEMA4A Antibody; Rabbit Polyclonal; Semaphorin 4A/SEMA4A/Semaphorin B Antibody; Rabbit PAb; Antigen Affinity Purified; semaphorin 4A; Anti-CORD10 Antibody; Anti-RP35 Antibody; Anti-SEMAB Antibody; Anti-SEMB Antibody; anti-SEMA4A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Semaphorin 4A/SEMA4A/Semaphorin B
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-SEMA4A antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Semaphorin 4A/SEMA4A/Semaphorin B protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Semaphorin 4A/SEMA4A/Semaphorin B (rh Semaphorin 4A/SEMA4A/Semaphorin B). Semaphorin 4A/SEMA4A/Semaphorin B specific IgG was purified by Human Semaphorin 4A/SEMA4A/Semaphorin B affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



WB (Western Blot)
Anti-SEMA4A rabbit polyclonal antibody at 1:500 dilutionLane A: Jurkat Membrane LysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:84 kDaObserved band size:84 kDa



IP (Immunoprecipitation)
SEMA4A was immunoprecipitated using:Lane A:0.5 mg Jurkat Whole Cell Lysate0.5 uL anti-SEMA4A rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-SEMA4A rabbit polyclonal antibody,at 1:500 dilutionSecondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilutionDeveloped using the odssey technique.Performed under reducing conditions.Predicted band size: 84 kDaObserved band size: 105 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-SEMA4A antibody	Semaphorin-4A, also known as Semaphorin-B, SEMA4A, Sema B and SEMAB, is a single-pass type I membrane protein that belongs to the semaphorin family. It inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. Semaphorin-4A/SEMA4A contains one Ig-like C2-type (immunoglobulin-like) domain, one PSI domain and one Sema domain. Defects in SEMA4A are the cause of retinitis pigmentosa type 35 (RP35) which leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of mid-peripheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. Defects in SEMA4A are also the cause of cone-rod dystrophy type 1 (CORD1) which are inherited retinal dystrophies belonging to the group of pigmentary retinopathies. CORDs are characterized by retinal pigment deposits visible on fundus examination, predominantly in the macular region, and initial loss of cone photoreceptors followed by rod degeneration. Semaphorins are secreted, transmembrane, and GPI-linked proteins, defined by cysteine-rich semaphorin protein domains, that have important roles in a variety of tissues. Humans have 2 semaphorins, Drosophila has five, and two are known from DNA viruses. Semaphorins are found in nematodes and crustaceans but not in non-animals. They are grouped into eight classes on the basis of phylogenetic tree analyses and the presence of additional protein motifs. Semaphorins have been implicated in diverse developmental processes such as axon guidance during nervous system development and regulation of cell migration.
References	Clark H.F., et al., 2003, Genome Res. 13: 2265-2270. Ota T., et al., 2004, Nat. Genet. 36: 40-45. Neufeld, G. et al., 2005, Front Biosci. 10 : 751-60. Fiore, R. et al., 2005, Mol Cell Biol. 25 (6):2310-9. Abid A., et al., 2006, J. Med. Genet. 43:378-381.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361914
NCBI GeneID	64218
NCBI Accession #	NP_071762.2
NCBI GenBank Nucleotide #	NM_022367.3
UniProt Accession #	Q9H3S1; Q5TCI5; Q5TCJ6; Q8WUA9; B2RDH8; B3KR76
Molecular Weight	69,104 Da
NCBI Official Full Name	semaphorin-4A isoform 1
NCBI Official Synonym Full Names	semaphorin 4A

NCBI Official Symbol	SEMA4A
NCBI Official Synonym Symbols	RP35; SEMB; SEMAB; CORD10
NCBI Protein Information	semaphorin-4A
UniProt Protein Name	Semaphorin-4A
UniProt Gene Name	SEMA4A
UniProt Synonym Gene Names	SEMAB; SEMB; Sema B
UniProt Entry Name	SEM4A_HUMAN

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/sema4a-antibody-immunoprecipitation-western-blot-elisa/255467>