

## Rabbit SEMA4A Polyclonal Antibody | anti-SEMA4A antibody

SEMA4A Rabbit pAb

|                               |                       |                                        |                                                         |
|-------------------------------|-----------------------|----------------------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA281759</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|---------------------------------------------------------|

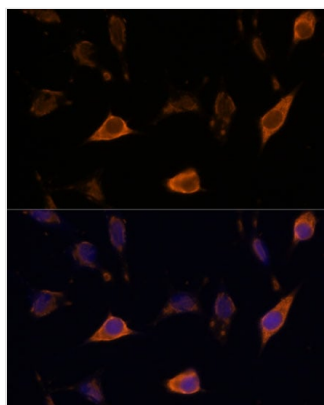
### PRODUCT SYNONYMS

SEMA4A; Polyclonal Antibody; SEMA4A Rabbit pAb; CORD10; RP35; SEMAB; SEMB; anti-SEMA4A antibody

### PRODUCT SPECIFICATIONS

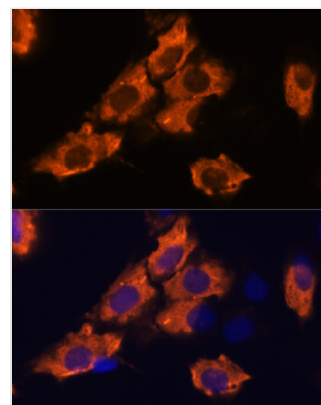
|                                                  |                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                                                                                                   |
| Reactivity                                       | Human, Mouse, Rat                                                                                                                                                                                                                                                                                        |
| Clonality                                        | Polyclonal                                                                                                                                                                                                                                                                                               |
| Isotype                                          | IgG                                                                                                                                                                                                                                                                                                      |
| Purity/Purification                              | Affinity purification                                                                                                                                                                                                                                                                                    |
| Form/Format                                      | PBS with 0.02% sodium azide, 50% glycerol, pH7.3.                                                                                                                                                                                                                                                        |
| Sequence                                         | IYAVFTSQWQ VGGTRSSAVC AFSLLDIERV FKGKYKELNK ETSRWTTYRG PETNPRPGSC SVGPSSDKAL<br>TFMKDHLMD EQVVGTPLLV KSGVEYTRLA VETAQGLDGH SHLVMYLGTT TGS LHKAVVS GDSSAHLVEE<br>IQLFPDPEPV RNLQLAPTQG AVFVGFSGGV WRVPRANCSV YESCVDCVLA RDPHCAWDPE SRTCCLLSAP<br>NLNSWKQDME RGNPEWACAS GPMSRSLRPQ SRPQIIKEVL AVPNSILELP C |
| Applicable Applications for anti-SEMA4A antibody | IF (Immunofluorescence), WB (Western Blot)                                                                                                                                                                                                                                                               |
| Immunogen                                        | Recombinant fusion protein containing a sequence corresponding to amino acids 320-580 of human SEMA4A (NP_071762.2).                                                                                                                                                                                     |
| Positive Samples                                 | HT-29                                                                                                                                                                                                                                                                                                    |
| Preparation and Storage                          | Store at -20 degree C. Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                         |

### IMAGES



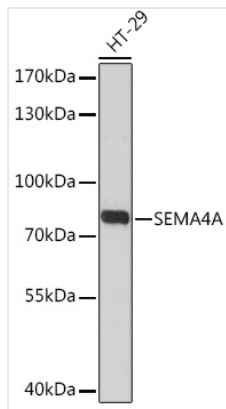
#### IF (Immunofluorescence)

Immunofluorescence analysis of L929 cells using SEMA4A antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



#### IF (Immunofluorescence)

Immunofluorescence analysis of C6 cells using SEMA4A antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



#### WB (Western Blot)

Western blot analysis of extracts of HT-29 cells, using SEMA4A Rabbit pAb at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

## ADDITIONAL INFORMATION

### Related Product Information for anti-SEMA4A antibody

Background: This gene encodes a member of the semaphorin family of soluble and transmembrane proteins. Semaphorins are involved in numerous functions, including axon guidance, morphogenesis, carcinogenesis, and immunomodulation. The encoded protein is a single-pass type I membrane protein containing an immunoglobulin-like C2-type domain, a PSI domain and a sema domain. It inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. It is an activator of T-cell-mediated immunity and suppresses vascular endothelial growth factor (VEGF)-mediated endothelial cell migration and proliferation in vitro and angiogenesis in vivo. Mutations in this gene are associated with retinal degenerative diseases including retinitis pigmentosa type 35 (RP35) and cone-rod dystrophy type 10 (CORD10). Multiple alternatively spliced transcript variants encoding different isoforms have been identified.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 300863072                                                                                                        |
| NCBI GeneID                      | 64218                                                                                                            |
| NCBI Accession #                 | NP_001180229.1                                                                                                   |
| NCBI GenBank Nucleotide #        | NM_001193300.1                                                                                                   |
| UniProt Accession #              | Q9H3S1; Q5TCI5; Q5TCJ6; Q8WUA9; B2RDH8; B3KR76                                                                   |
| Molecular Weight                 | 83,574 Da                                                                                                        |
| NCBI Official Full Name          | semaphorin-4A isoform 1                                                                                          |
| NCBI Official Synonym Full Names | sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A |
| NCBI Official Symbol             | SEMA4A                                                                                                           |
| NCBI Official Synonym Symbols    | RP35; SEMB; SEMAB; CORD10; RP11-54H19.2                                                                          |
| NCBI Protein Information         | semaphorin-4A; sema B; semaphorin-B                                                                              |
| UniProt Protein Name             | Semaphorin-4A                                                                                                    |
| UniProt Gene Name                | <b>SEMA4A</b>                                                                                                    |
| 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://www.aaabiotech.com/polyclonal/sema4a-antibody-immunofluorescence-western-blot-elisa/281759>