

## Rabbit Semaphorin 4A Polyclonal Antibody | anti-SEMA4A antibody

Anti-Semaphorin 4A Antibody

| CATALOG # | HOST   | REACTIVITY    | APPLICATIONS                                                               |
|-----------|--------|---------------|----------------------------------------------------------------------------|
| AAA104223 | Rabbit | Human, Monkey | Immunoprecipitation, Immunocytochemistry, Immunofluorescence, Western Blot |

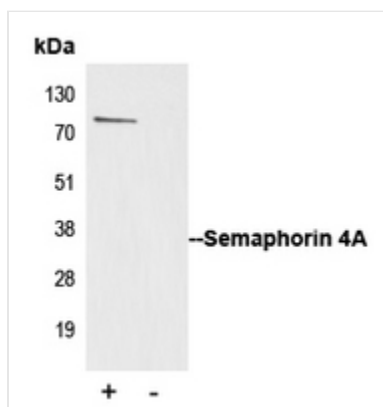
### PRODUCT SYNONYMS

Semaphorin 4A; Polyclonal Antibody; Anti-Semaphorin 4A Antibody; SEMAB; SEMB; Semaphorin-4A; Semaphorin-B; Sema B; anti-SEMA4A antibody

### PRODUCT SPECIFICATIONS

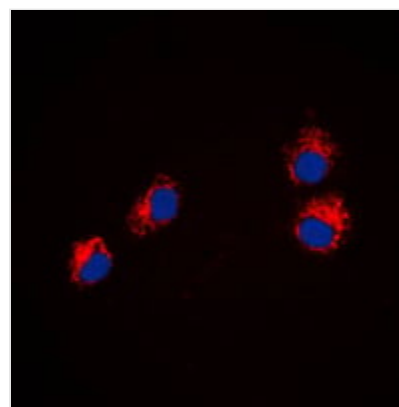
|                                                  |                                                                                                                                              |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                       |
| Reactivity                                       | Human, Monkey                                                                                                                                |
| Clonality                                        | Polyclonal                                                                                                                                   |
| Specificity                                      | Recognizes endogenous levels of Semaphorin 4A protein.                                                                                       |
| Purity/Purification                              | The antibody was purified by immunogen affinity chromatography.                                                                              |
| Form/Format                                      | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                    |
| Sequence Length                                  | 761                                                                                                                                          |
| Applicable Applications for anti-SEMA4A antibody | IP (Immunoprecipitation), ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)                                              |
| Immunogen                                        | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Semaphorin 4A. The exact sequence is proprietary. |
| Preparation and Storage                          | Upon receipt aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                       |

### IMAGES



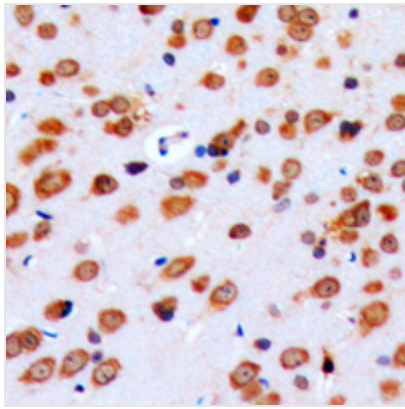
#### IP (Immunoprecipitation)

Immunoprecipitation of Semaphorin 4A from 0.5mg Jurkat whole cell extract lysate, using 5ug of anti-Semaphorin 4A Antibody and 50ul of protein G magnetic beads (+). No antibody was added to the control (-). The antibody was incubated under agitation with Protein G beads for 10min, Jurkat whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation. Proteins were eluted by addition of 40ul SDS loading buffer and incubated for 10min at 70°C; 10ul of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with anti-Semaphorin 4A Antibody.

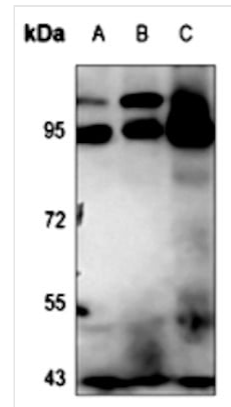


#### IF (Immunofluorescence)

Immunofluorescent analysis of Semaphorin 4A staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

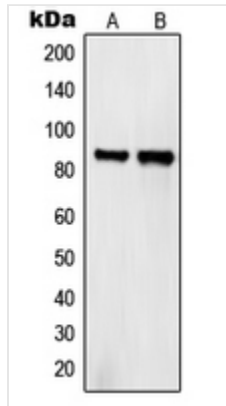


IHC (Immunohistochemistry)



WB (Western Blot)

Western blot analysis of Semaphorin 4A expression in HEK293T (A), A549 (B), SGC7901 (C) whole cell lysates.



WB (Western Blot)

Western blot analysis of Semaphorin 4A expression in HeLa (A), COS7 (B) whole cell lysates.

## ADDITIONAL INFORMATION

Related Product Information for anti-SEMA4A antibody

Rabbit polyclonal antibody to Semaphorin 4A

## 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                                                                   |
| 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                                                                                        |
| NCBI Protein Information         | semaphorin-4A; sema B; semaphorin-B                                                                              |
| 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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