

## Rabbit Semaphorin-4D ELISA Kit | SEMA4D / CD100 elisa kit

Rabbit Semaphorin-4D ELISA Kit

CATALOG #  
**AAA91249**

REACTIVITY  
**Rabbit**

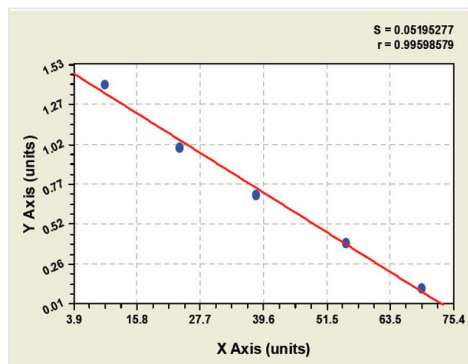
### PRODUCT SYNONYMS

Semaphorin-4D; Rabbit Semaphorin-4D ELISA Kit; SEMA4D / CD100 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rabbit                                                                                                                                                                                      |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                                  |
| Assay Type              | Competitive                                                                                                                                                                                 |
| Detection Range         | 1.0-25ng/mL                                                                                                                                                                                 |
| Sensitivity             | 0.1ng/mL                                                                                                                                                                                    |
| Intended Uses           | This SEMA4D ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rabbit SEMA4D. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                         |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for SEMA4D / CD100 elisa kit

**Principle of the Assay:** SEMA4D ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-SEMA4D antibody and an SEMA4D -HRP conjugate. The assay sample and buffer are incubated together with SEMA4D -HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the SEMA4D concentration since SEMA4D from samples and SEMA4D -HRP conjugate compete for the anti-SEMA4D antibody binding site. Since the number of sites is limited, as more sites are occupied by SEMA4D from the sample, fewer sites are left to bind SEMA4D -HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The SEMA4D concentration in each sample is interpolated from this standard curve.

|                                                           |            |
|-----------------------------------------------------------|------------|
| Product Categories/Family for<br>SEMA4D / CD100 elisa kit | Immunology |
|-----------------------------------------------------------|------------|

### NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 214010218                                                                                                                         |
| NCBI GeneID                      | 10507                                                                                                                             |
| NCBI Accession #                 | NP_006369.3                                                                                                                       |
| NCBI GenBank Nucleotide #        | NM_006378.3                                                                                                                       |
| Molecular Weight                 | 82,164 Da                                                                                                                         |
| NCBI Official Full Name          | semaphorin-4D isoform 1                                                                                                           |
| NCBI Official Synonym Full Names | sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D                  |
| NCBI Official Symbol             | SEMA4D                                                                                                                            |
| NCBI Official Synonym Symbols    | CD100; SEMAJ; coll-4; C9orf164; M-sema-G                                                                                          |
| NCBI Protein Information         | semaphorin-4D; A8; GR3; BB18; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4D |
| UniProt Protein Name             | Semaphorin-4D                                                                                                                     |
| UniProt Gene Name                | <b>SEMA4D</b>                                                                                                                     |
| UniProt Synonym Gene Names       | C9orf164; CD100; SEMAJ                                                                                                            |
| UniProt Entry Name               | SEM4D_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/sema4d-cd100-rabbit-elisa-kits/semaphorin-4d/91249>