

# Human sema domain, immunoglobulin domain (Ig) , transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D ELISA Kit | SEMA4D elisa kit

Human soluble Cluster of differentiation 100, sCD100 ELISA Kit

CATALOG #

**AAA15737**

REACTIVITY

**Human**

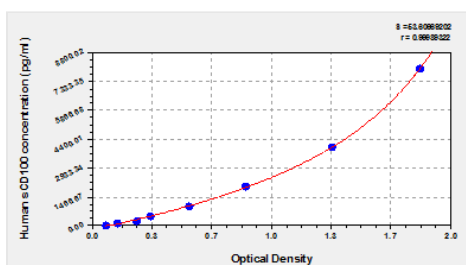
## PRODUCT SYNONYMS

sema domain; immunoglobulin domain (Ig); transmembrane domain (TM) and short cytoplasmic domain; (semaphorin) 4D; Human soluble Cluster of differentiation 100; sCD100 ELISA Kit; Human soluble Cluster of differentiation 100 (sCD100) ELISA kit; XXyac-YM68G7.1; C9orf164; CD100; FLJ33485; FLJ34282; FLJ39737; FLJ46484; M-sema-G; MGC169138; MGC169141; SEMAJ; coll-4; OTTHUMP00000021622; OTTHUMP00000208950; OTTHUMP00000208951; OTTHUMP00000208957; se; SEMA4D elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                     |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of human sCD100. No significant cross-reactivity or interference between human sCD100 and analogues was observed. |
| Sequence Length         | 738                                                                                                                                                                                       |
| Samples                 | Serum, plasma, tissue homogenates                                                                                                                                                         |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                     |
| Detection Range         | 125 pg/ml-8000 pg/ml                                                                                                                                                                      |
| Sensitivity             | < 31.25 pg/ml                                                                                                                                                                             |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.                                          |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.                                                   |
| Preparation and Storage | Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.                                                         |

## IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SEMA4D elisa kit | Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for sCD100 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any sCD100 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for sCD100 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of sCD100 bound in the initial step. The color development is stopped and the intensity of the color is measured. |
| References                                       | <a href="#">Increased soluble CD72 in systemic lupus erythematosus is in association with disease activity and lupus nephritis.</a> Zahava Vadasz, Yair Goldeberg, Katty Halasz, Itzhak Rosner, Guido Valesini, Fabrizio Conti, Carlo Perricone, Zev Sthoeger, Shira Rosenberg Bezalel, Athanasios G. Tzioufas, Nancy Agmon Levin, Yehuda Shoenfeld and Elias Toubi (2016)                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | <a href="#">214010220</a>                                                                                                         |
| NCBI GeneID                      | <a href="#">10507</a>                                                                                                             |
| NCBI Accession #                 | <a href="#">NP_001135759.1</a>                                                                                                    |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001142287.1</a>                                                                                                    |
| UniProt Accession #              | <a href="#">Q92854</a> ; <a href="#">Q7Z5S4</a> ; <a href="#">Q8N8B0</a> ; <a href="#">B2RPM6</a>                                 |
| Molecular Weight                 | 96,150 Da                                                                                                                         |
| NCBI Official Full Name          | semaphorin-4D isoform 2                                                                                                           |
| 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-human-elisa-kits/sema-domain-immunoglobulin-domain-ig-transmembrane-domain-tm-and-short-cytoplasmic-domain-semaphorin-4d/15737>