

## Human Semaphorin 3B (SEMA3B) ELISA Kit | SEMA3B elisa kit

Human Semaphorin 3B (SEMA3B) ELISA Kit

CATALOG #  
**AAA20457**

REACTIVITY  
**Human**

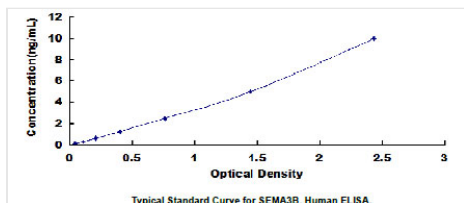
### PRODUCT SYNONYMS

Semaphorin 3B (SEMA3B); Human Semaphorin 3B (SEMA3B) ELISA Kit; LUCA-1; SEMA5; SEMAA; SemA; semaV; Semaphorin-V; Sema Domain; Immunoglobulin Domain(Ig); Transmembrane Domain(TM)and Short Cytoplasmic Domain 3B; SEMA3B elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of SEMA3B. No significant cross-reactivity or interference between SEMA3B and analogues was observed.                                                                                                                                                                                                                                                                                                              |
| Sequence Length         | 749                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Samples                 | Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                       |
| Detection Range         | 0.156-10ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity             | 0.055ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SEMA3B were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                   |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level SEMA3B were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                 |
| Preparation and Storage | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SEMA3B elisa kit | <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SEMA3B in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SEMA3B. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SEMA3B. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain SEMA3B, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of SEMA3B in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> |
| Product Categories/Family for SEMA3B elisa kit   | CD & Adhesion molecule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| References                                       | SEMA3B but Not CUL1 as Marker for Pre-Eclampsia Progression; Malays J Med Sci; 2019 Jan;26(1):66-72.; PMID: 30914894; TD Samara; Doctoral Program in Biomedical Sciences, Faculty of Medicine, Universitas Indonesia, Jakarta, Indonesia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| NCBI GI #                        | 4759092                                                                                |
| NCBI GeneID                      | 7869                                                                                   |
| NCBI Accession #                 | NP_004627.1                                                                            |
| NCBI GenBank Nucleotide #        | NM_004636.3                                                                            |
| UniProt Accession #              | Q13214; Q6GU46; Q8TB71; Q8TDV7; Q93018; Q96GX0                                         |
| Molecular Weight                 | 83,035 Da                                                                              |
| NCBI Official Full Name          | semaphorin-3B isoform 1                                                                |
| NCBI Official Synonym Full Names | sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B |
| NCBI Official Symbol             | SEMA3B                                                                                 |
| NCBI Official Synonym Symbols    | SemA; SEMA5; SEMAA; semaV; LUCA-1                                                      |
| NCBI Protein Information         | semaphorin-3B                                                                          |
| UniProt Protein Name             | Semaphorin-3B                                                                          |
| UniProt Gene Name                | SEMA3B                                                                                 |
| UniProt Synonym Gene Names       | SEMA5; SEMAA; Sema V                                                                   |
| UniProt Entry Name               | SEM3B_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.