

## Rat sema domain, immunoglobulin domain (Ig) , short basic domain, secreted, (semaphorin) 3A ELISA Kit | SEMA3A elisa kit

Rat Semaphorin-3A, SEMA3A ELISA Kit

CATALOG #  
**AAA112802**

REACTIVITY  
**Rat**

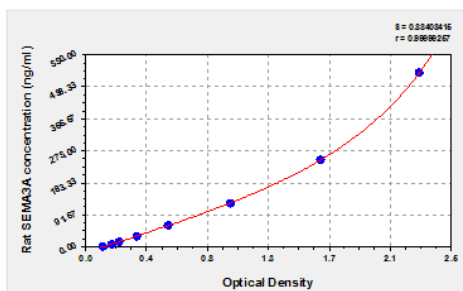
### PRODUCT SYNONYMS

sema domain; immunoglobulin domain (Ig); short basic domain; secreted; (semaphorin) 3A; Rat Semaphorin-3A; SEMA3A ELISA Kit; Rat Semaphorin-3A (SEMA3A) ELISA kit; Hsema-I; Hsema-III; MGC133243; SEMA1; SEMAD; SEMAIII; SEMAL; SemD; coll-1; OTTHUMP00000208884; collapsin 1; semaphorin 3A; semaphorin D; semaphorin III; semaphorin L; semaphorin-like; SEMA3A elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                        |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of rat SEMA3A. No significant cross-reactivity or interference between rat SEMA3A and analogues was observed.                                                                                                                                                                      |
| Sequence Length         | 772                                                                                                                                                                                                                                                                                                                                                        |
| Samples                 | Serum, plasma, tissue homogenates                                                                                                                                                                                                                                                                                                                          |
| Assay Type              | Sandwich                                                                                                                                                                                                                                                                                                                                                   |
| Detection Range         | 7.8 ng/ml-500 ng/ml.                                                                                                                                                                                                                                                                                                                                       |
| Sensitivity             | The minimum detectable dose of rat SEMA3A is typically less than 1.95 ng/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations. |
| 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 SEMA3A elisa kit | <b>Principle of the assay:</b> This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for SEMA3A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SEMA3A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SEMA3A 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 SEMA3A bound in the initial step. The color development is stopped and the intensity of the color is measured. |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 8394255                                                                                                                  |
| NCBI GeneID                      | 29751                                                                                                                    |
| NCBI Accession #                 | NP_059006.1                                                                                                              |
| NCBI GenBank Nucleotide #        | NM_017310.1                                                                                                              |
| UniProt Accession #              | Q63548                                                                                                                   |
| Molecular Weight                 | 88,808 Da                                                                                                                |
| NCBI Official Full Name          | semaphorin-3A                                                                                                            |
| NCBI Official Synonym Full Names | sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A                                   |
| NCBI Official Symbol             | Sema3a                                                                                                                   |
| NCBI Protein Information         | semaphorin-3A; sema III; Semaphorin 3a; semaphorin III; sema domain, immunoglobulin domain (Ig), short basic domain, sec |
| UniProt Protein Name             | Semaphorin-3A                                                                                                            |
| UniProt Gene Name                | <b>Sema3a</b>                                                                                                            |
| UniProt Synonym Gene Names       | Sema III                                                                                                                 |
| UniProt Entry Name               | SEM3A_RAT                                                                                                                |

**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.