# Human Semaphorin 3A(Sema 3A)ELISA Kit

| | |
|---|---|
| **Product Code** | CSB-E15913h |
| **Abbreviation** | SEMA3A |
| **Protein Biological Process 1** | Developmental Protein |
| **Target Name** | sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A |
| **Uniprot No.** | Q14563 |
| **Alias** | 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 |
| **Product Type** | ELISA Kit |
| **Immunogen Species** | Homo sapiens (Human) |
| **Protein Biological Process 3** | Differentiation |
| **Sample Types** | serum, plasma, cell culture supernates, tissue homogenates |
| **Detection Range** | 0.156 ng/mL-10 ng/mL |
| **Sensitivity** | 0.039 ng/mL |
| **Assay Time** | 1-5h |
| **Sample Volume** | 50-100ul |
| **Detection Wavelength** | 450 nm |
| **Lead Time** | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx. |
| **Research Area** | Cardiovascular |
| **Gene Names** | SEMA3A |
| **Tag Info** | quantitative |
| **Protein Description** | Sandwich |
| **Description** | This Human SEMA3A ELISA Kit was designed for the quantitative measurement of Human SEMA3A protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL. |
| **Target Details** | This gene is a member of the semaphorin family and encodes a protein with an Ig-like C2-type (immunoglobulin-like) domain, a PSI domain and a Sema domain. This secreted protein can function as either a chemorepulsive agent, inhibiting axonal outgrowth, or as a chemoattractive agent, stimulating the growth of apical dendrites. In both cases, the protein is vital for normal neuronal |

pattern development. Increased expression of this protein is associated with schizophrenia and is seen in a variety of human tumor cell lines. Also, aberrant release of this protein is associated with the progression of Alzheimer s disease.

**Product 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 (Precision between assays): CV%<10%
Three samples of known concentration were tested in twenty assays to assess.

**Linearity**

To assess the linearity of the assay, samples were spiked with high concentrations of human Sema 3A in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

| ? | Sample | Serum(n=4) |
|---|---|---|
| 1:1 | Average % | 96 |
| | Range % | 85-100 |
| 1:2 | Average % | 87 |
| | Range % | 82-93 |
| 1:4 | Average % | 98 |
| | Range % | 95-100 |
| 1:8 | Average % | 92 |
| | Range % | 88-94 |

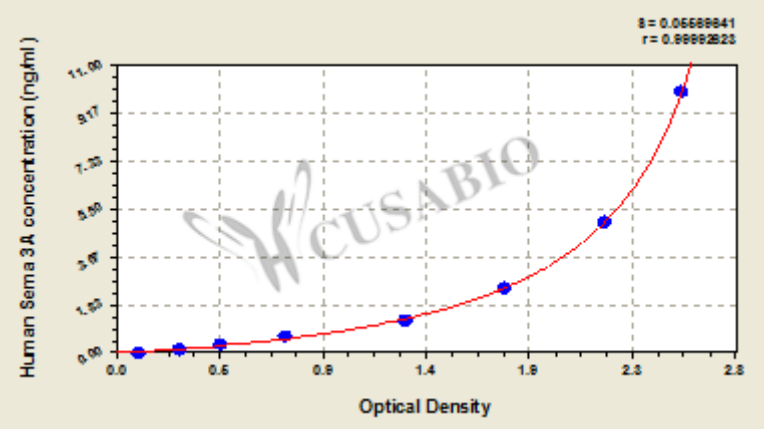
**Recovery**

The recovery of human Sema 3A spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

| Sample Type | Average % Recovery | Range |
|---|---|---|
| Serum (n=5) | 92 | 88-96 |
| EDTA plasma (n=4) | 97 | 90-104 |

**Typical**

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.




| ng/ml | OD1 | OD2 | Average | Corrected |
|---|---|---|---|---|
| 10 | 2.490 | 2.569 | 2.530 | 2.422 |
| 5 | 2.171 | 2.196 | 2.184 | 2.076 |
| 2.5 | 1.726 | 1.756 | 1.741 | 1.633 |
| 1.25 | 1.284 | 1.306 | 1.295 | 1.187 |
| 0.625 | 0.727 | 0.790 | 0.759 | 0.651 |
| 0.312 | 0.461 | 0.481 | 0.471 | 0.363 |
| 0.156 | 0.287 | 0.296 | 0.292 | 0.184 |
| 0 | 0.107 | 0.109 | 0.108 | ? |

**Msds**

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