



Human Semaphorin-4A(SEMA4A) ELISA kit

Product Code	CSB-EL020987HU
Abbreviation	SEMA4A
Protein Biological Process 1	Developmental Protein
Target Name	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A
Uniprot No.	Q9H3S1
Alias	RP11-54H19.2, CORD10, FLJ12287, RP35, SEMAB, SEMB, OTTHUMP00000015917 OTTHUMP00000015918 sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 4A semaphori
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Differentiation
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	SEMA4A
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human SEMA4A ELISA Kit was designed for the quantitative measurement of Human SEMA4A protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
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 SEMA4A 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 %	89
	Range %	85-93
1:2	Average %	97
	Range %	93-100
1:4	Average %	91
	Range %	88-95
1:8	Average %	94
	Range %	91-99

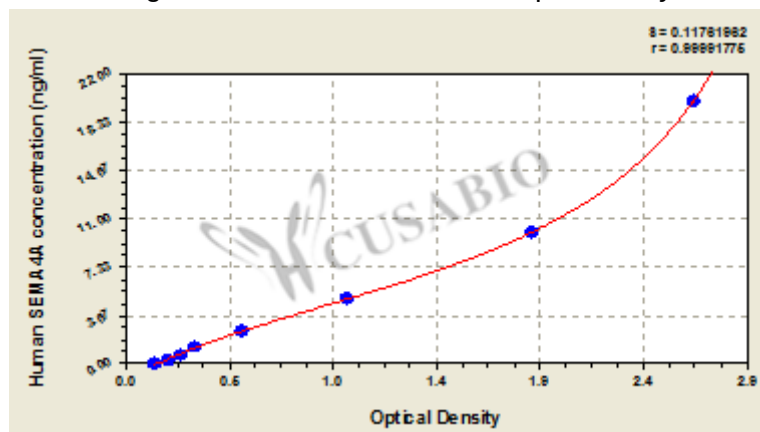
Recovery

The recovery of human SEMA4A 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)	83	80-86
EDTA plasma (n=4)	87	81-90

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
20	2.604	2.635	2.620	2.478
10	1.863	1.899	1.881	1.739
5	1.021	1.036	1.029	0.887
2.5	0.564	0.532	0.548	0.406
1.25	0.315	0.335	0.325	0.183
0.625	0.259	0.271	0.265	0.123
0.312	0.206	0.199	0.203	0.061
0	0.141	0.143	0.142	

Msds

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