

Human Semaphorin 4D (SEMA4D) ELISA Kit | SEMA4D elisa kit

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CATALOG #
AAA20641

REACTIVITY
Human

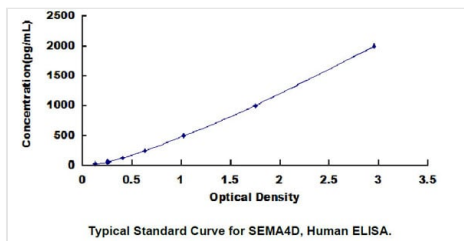
PRODUCT SYNONYMS

Semaphorin 4D (SEMA4D); Human Semaphorin 4D (SEMA4D) ELISA Kit; CD100; A8; BB18; GR3; M-Sema G; M-Sema-G; SEMAJ; Coll-4; Sema Domain; Immunoglobulin Domain(Ig); Transmembrane Domain(TM)and Short Cytoplasmic Domain 4D; SEMA4D elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SEMA4D. No significant cross-reactivity or interference between SEMA4D and analogues was observed.
Sequence Length	862
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	< 12.1pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SEMA4D 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 SEMA4D 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. 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 SEMA4D elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SEMA4D. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SEMA4D. 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 SEMA4D, 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 $\pm$ 10nm. The concentration of SEMA4D in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SEMA4D in human serum, plasma, tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for SEMA4D elisa kit	CD & Adhesion molecule; Tumor immunity; Infection immunity; Immune molecule
References	Semaphorin 4D levels in heart failure patients: a potential novel biomarker of acute heart failure?; ESC Heart Fail; 2018 Aug;5(4):603-609.; PMID: 29524314; Nadav Willner; Department of Internal Medicine B, Bnai Zion Medical Center, Haifa, Israel.

NCBI AND UNIPROT INFORMATION

NCBI GI #	214010218
NCBI GeneID	10507
NCBI Accession #	NP_006369.3
NCBI GenBank Nucleotide #	NM_006378.3
Molecular Weight	82,164 Da
NCBI Official Full Name	semaphorin-4D isoform 1
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
UniProt Protein Name	Semaphorin-4D
UniProt Gene Name	SEMA4D
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://www.aaabiotech.com/human-elisa-kits/semaphorin-4d-sema4d/20641>