

Rat Semaphorin-4D ELISA Kit | SEMA4D / CD100 elisa kit

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CATALOG #
AAA92960

REACTIVITY
Rat

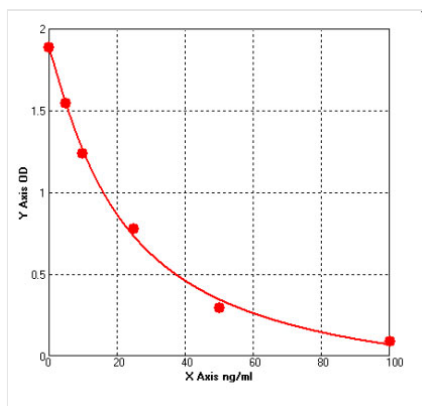
PRODUCT SYNONYMS

Semaphorin-4D; Rat Semaphorin-4D ELISA Kit; SEMA4D / CD100 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
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. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between SEMA4D and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	1.0 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SEMA4D / CD100 elisa kit	Principle of the Assay: SEMA4D ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-SEMA4D antibody and an SEMA4D-HRP conjugate. The assay sample and buffer are incubated together with SEMA4D-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the SEMA4D concentration since SEMA4D from samples and SEMA4D-HRP conjugate compete for the anti-SEMA4D antibody binding site. Since the number of sites is limited, as more sites are occupied by SEMA4D from the sample, fewer sites are left to bind SEMA4D-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The SEMA4D concentration in each sample is interpolated from this standard curve. Intended Uses: This SEMA4D ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat SEMA4D. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for SEMA4D / CD100 elisa kit	Immunology

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; A8; GR3; BB18; sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, 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.