

Human Semaphorin 3B (SEMA3B) ELISA Kit | SEMA3B elisa kit

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CATALOG #
AAA20457

REACTIVITY
Human

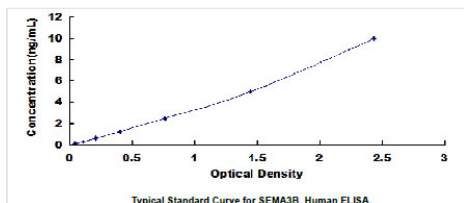
PRODUCT SYNONYMS

Semaphorin 3B (SEMA3B); Human Semaphorin 3B (SEMA3B) ELISA Kit; LUCA-1; SEMA5; SEMAA; SemA; semaV; Semaphorin-V; Sema Domain; Immunoglobulin Domain(Ig); Transmembrane Domain(TM)and Short Cytoplasmic Domain 3B; SEMA3B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of SEMA3B. No significant cross-reactivity or interference between SEMA3B and analogues was observed.
Sequence Length	749
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level SEMA3B 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 SEMA3B 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 SEMA3B elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of SEMA3B in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to SEMA3B. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to SEMA3B. 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 SEMA3B, 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 +/- 10nm. The concentration of SEMA3B in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for SEMA3B elisa kit	CD & Adhesion molecule
References	SEMA3B but Not CUL1 as Marker for Pre-Eclampsia Progression; Malays J Med Sci; 2019 Jan;26(1):66-72.; PMID: 30914894; TD Samara; Doctoral Program in Biomedical Sciences, Faculty of Medicine, Universitas Indonesia, Jakarta, Indonesia.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4759092
NCBI GeneID	7869
NCBI Accession #	NP_004627.1
NCBI GenBank Nucleotide #	NM_004636.3
UniProt Accession #	Q13214; Q6GU46; Q8TB71; Q8TDV7; Q93018; Q96GX0
Molecular Weight	83,035 Da
NCBI Official Full Name	semaphorin-3B isoform 1
NCBI Official Synonym Full Names	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B
NCBI Official Symbol	SEMA3B
NCBI Official Synonym Symbols	SemA; SEMA5; SEMAA; semaV; LUCA-1
NCBI Protein Information	semaphorin-3B
UniProt Protein Name	Semaphorin-3B
UniProt Gene Name	SEMA3B
UniProt Synonym Gene Names	SEMA5; SEMAA; Sema V
UniProt Entry Name	SEM3B_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.