

Canine Semaphorin 7A ELISA Kit | SEMA7A elisa kit

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CATALOG #
AAA90983

REACTIVITY
Canine

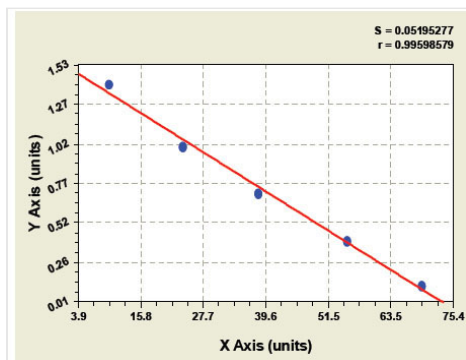
PRODUCT SYNONYMS

Semaphorin 7A; Canine Semaphorin 7A ELISA Kit; SEMA7A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This SEMA7A ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine SEMA7A. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SEMA7A elisa kit

Principle of the Assay: SEMA7A ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-SEMA7A antibody and an SEMA7A-HRP conjugate. The assay sample and buffer are incubated together with SEMA7A-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 SEMA7A concentration since SEMA7A from samples and SEMA7A-HRP conjugate compete for the anti-SEMA7A antibody binding site. Since the number of sites is limited, as more sites are occupied by SEMA7A from the sample, fewer sites are left to bind SEMA7A-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The SEMA7A concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	225637524
NCBI GeneID	8482
NCBI Accession #	NP_001139502.1
NCBI GenBank Nucleotide #	NM_001146030.1
Molecular Weight	73,364 Da
NCBI Official Full Name	semaphorin-7A isoform 3
NCBI Official Synonym Full Names	semaphorin 7A, GPI membrane anchor (John Milton Hagen blood group)
NCBI Official Symbol	SEMA7A
NCBI Official Synonym Symbols	JMH; CD108; SEMAL; CDw108; SEMAK1; H-Sema-L; H-SEMA-K1
NCBI Protein Information	semaphorin-7A; sema L; sema K1; semaphorin L; semaphorin-L; semaphorin K1; semaphorin-K1; JMH blood group antigen; John Milton Hagen blood group H-Sema K1; john-Milton-Hargen human blood group Ag; sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, 7A; sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (JMH blood group)
UniProt Protein Name	Semaphorin-7A
UniProt Gene Name	SEMA7A
UniProt Synonym Gene Names	CD108; SEMAL; Sema K1; Sema L
UniProt Entry Name	SEM7A_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.