Canine A disintegrin and metalloproteinase with thrombospondin motifs 5 (ADAMTS5) ELISA Kit | ADAMTS5 elisa kit

Canine A disintegrin and metalloproteinase with thrombospondin motifs 5 (ADAMTS5) ELISA Kit

CATALOG #	REACTIVITY
AAA27307	**Canine**

PRODUCT SYNONYMS

A disintegrin and metalloproteinase with thrombospondin motifs 5 (ADAMTS5); Canine A disintegrin and metalloproteinase with thrombospondin motifs 5 (ADAMTS5) ELISA Kit; ADAMTS5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	This assay has high sensitivity and excellent specificity for detection of ADAMTS5. No significant cross-reactivity or interference between ADAMTS5 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ADAMTS5 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	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ADAMTS5 elisa kit	Principle of the Assay: ADAMTS5 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ADAMTS5 antibody and an ADAMTS5-HRP conjugate. The assay sample and buffer are incubated together with ADAMTS5-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 ADAMTS5 concentration since ADAMTS5 from samples and ADAMTS5-HRP conjugate compete for the anti-ADAMTS5 antibody binding site. Since the number of sites is limited, as more sites are occupied by ADAMTS5 from the sample, fewer sites are left to bind ADAMTS5-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ADAMTS5 concentration in each sample is interpolated from this standard curve. Intended Uses: This ADAMTS5 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine ADAMTS5. This ELISA kit for research use only, not for therapeutic or diagnostic applications!

Product Categories/Family for ADAMTS5 elisa kit	Cardiovascular

NCBI AND UNIPROT INFORMATION

NCBI GI #	195539372
NCBI GeneID	11096
NCBI Accession #	NP_008969.2
NCBI GenBank Nucleotide #	NM_007038.3
Molecular Weight	101,718 Da
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 5 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif, 5
NCBI Official Symbol	ADAMTS5
NCBI Official Synonym Symbols	ADMP-2; ADAM-TS5; ADAMTS-5; ADAMTS11; ADAM-TS 5; ADAMTS-11; ADAM-TS 11
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 5; aggrecanase-2; a disintegrin and metalloproteinase with thrombospondin motifs 11; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2)
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 5
UniProt Gene Name	**ADAMTS5**
UniProt Synonym Gene Names	ADAMTS11; ADMP2; ADAM-TS 5; ADAM-TS5; ADAMTS-5; ADAM-TS 11; ADAMTS-11
UniProt Entry Name	ATS5_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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