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

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CATALOG #	REACTIVITY
AAA246590	**Rat**

PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/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	Intended Uses: This ADAMTS5 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat ADAMTS5. This ELISA kit for research use only! 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.
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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