

Rat A disintegrin and metalloproteinase with thrombospondin motifs 4 ELISA Kit | Adamts4 elisa kit

Rat A disintegrin and metalloproteinase with thrombospondin motifs 4 ELISA Kit

CATALOG #
AAA100958

REACTIVITY
Rat

PRODUCT SYNONYMS

A disintegrin and metalloproteinase with thrombospondin motifs 4; Rat A disintegrin and metalloproteinase with thrombospondin motifs 4 ELISA Kit; Adamts4/ADAMTS2/ADMP-1/ADAM-TS 4/ADAMTS-2/ADAM-TS4/ADAMTS-4/Aggrecanase 1/a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif; 4/ADAM metalloproteinase with thrombospondin type 1 motif; 4/A disintegrin and metalloproteinase with thrombospondin motifs 4; Adamts4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of ADAMTS12. No significant cross-reactivity or interference between ADAMTS12 and analogues was observed.
Sequence Length	837
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ADAMTS12 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ADAMTS12 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a Adamts4 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.147	0.286	0.446	0.659	1.076	1.574	1.985	2.424

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Adamts4 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-ADAMTS12 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-ADAMTS12 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the ADAMTS12 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of ADAMTS12 can be calculated.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	157427675
NCBI GeneID	9507
NCBI Accession #	NP_005090.3
NCBI GenBank Nucleotide #	NM_005099.5
Molecular Weight	83,030 Da
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 4 isoform 1 preproprotein
NCBI Official Synonym Full Names	ADAM metalloproteinase with thrombospondin type 1 motif 4
NCBI Official Symbol	ADAMTS4
NCBI Official Synonym Symbols	ADMP-1; ADAMTS-2; ADAMTS-4
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 4
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 4
UniProt Gene Name	ADAMTS4
UniProt Synonym Gene Names	KIAA0688; ADAM-TS 4; ADAM-TS4; ADAMTS-4
UniProt Entry Name	ATS4_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.