ADAM Metallopeptidase with Thrombospondin Type 1 Motif 5 (ADAMTS5) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	ADAM Metallopeptidase with Thrombospondin Type 1 Motif 5 (ADAMTS5), ELISA Kit
Full Product Name	Human ADAM Metallopeptidase with Thrombospondin Type 1 Motif 5 (ADAMTS5) ELISA Kit
Product Gene Name	ADAMTS5 elisa kit
Species Reactivity	Human
Preparation and Storage	Store at 2 to 8 degree C for 6 months.
Molecular Weight	101,718 Da
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ADAMTS5 elisa kit	MBS166903 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the ADAM Metallopeptidase with Thrombospondin Type 1 Motif 5 (ADAMTS5) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ADAMTS5. The ELISA analytical biochemical technique of the MBS166903 kit is based on ADAMTS5 antibody-ADAMTS5 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAMTS5 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAMTS5. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of ADAMTS5 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAMTS5. It may not necessarily be applicable to this product.

NCBI GI #	62740203
NCBI GeneID	11096
NCBI Accession #	AAH93777.1
UniProt Secondary Accession #	Q52LV4; Q9UKP2
UniProt Related Accession #	Q9UNA0
NCBI Official Full Name	ADAM metallopeptidase with thrombospondin type 1 motif, 5
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
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 5
UniProt Synonym Protein Names	A disintegrin and metalloproteinase with thrombospondin motifs 11; ADAM-TS 11; ADAMTS-11; ADMP-2; Aggrecanase-2
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	ADAMTS5

UniProt Synonym Gene Names	ADAMTS11; ADMP2; ADAM-TS 5; ADAM-TS5; ADAMTS-5; ADAM-TS 11; ADAMTS-11
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 5
NCBI Summary for ADAMTS5	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme contains two C-terminal TS motifs and functions as an aggrecanase that cleaves aggrecan, a major proteoglycan of cartilage, and may mediate cartilage destruction in osteoarthritis. [provided by RefSeq, Feb 2016]
UniProt Comments for ADAMTS5	Metalloproteinase that plays an important role in connective tissue organization, development, inflammation, arthritis, and cell migration. ADAMTS5 is an extracellular matrix (ECM) degrading enzyme that show proteolytic activity toward the hyalectan group of chondroitin sulfate proteoglycans (CSPGs) including aggrecan, versican, brevican and neurocan (PubMed:16133547, PubMed:18992360). Cleavage within the hyalectans occurs at Glu-Xaa recognition motifs. Plays a role in embryonic development, including limb and cardiac morphogenesis, and skeletal muscle development through its versican remodeling properties. Participates in development of brown adipose tissue and browning of white adipose tissue. Plays an important role for T-lymphocyte migration from draining lymph nodes following viral infection.
Research Articles on ADAMTS5	**1.** A novel genetic variant in ADAMTS5 is associated with bicuspid aortic valve disease.
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