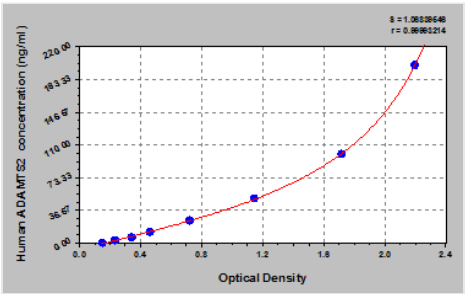
ADAM Metallopeptidase with Thrombospondin Type 1 Motif, 2 (ADAMTS2) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	ADAM metallopeptidase with thrombospondin type 1 motif, 2 (ADAMTS2), ELISA Kit
Full Product Name	Human A disintegrin and metalloproteinase with thrombospondin motifs 2, ADAMTS2 ELISA Kit
Product Gene Name	ADAMTS2 elisa kit
Product Synonym Names	Human A disintegrin and metalloproteinase with thrombospondin motifs 2 (ADAMTS2) ELISA kit; ADAM-TS2; ADAMTS-3; NPI; PCINP; PCPNI; hPCPNI; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif; 2; procollagen I N-proteinase; procollagen N-endopeptidase; ADAM metallopeptidase with thrombospondin type 1 motif; 2
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	3.12 ng/ml-200 ng/ml
Sensitivity	< 0.78 ng/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of human ADAMTS2. No significant cross-reactivity or interference between human ADAMTS2 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	134,755 Da
OMIM	604539
3D Structure	ModBase 3D Structure for O95450
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ADAMTS2 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for ADAMTS2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ADAMTS2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADAMTS2 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ADAMTS2 bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of ADAMTS2 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.

Searchable Terms for ADAMTS2 purchase	MBS947192 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, 2 (ADAMTS2) 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 ADAMTS2. The ELISA analytical biochemical technique of the MBS947192 kit is based on ADAMTS2 antibody-ADAMTS2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAMTS2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAMTS2. 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(%).



Typical Testing Data/Standard Curve (for reference only) of ADAMTS2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADAMTS2. It may not necessarily be applicable to this product.

NCBI GI #	110825974
NCBI GeneID	9509
NCBI Accession #	NP_055059.2
UniProt Primary Accession #	O95450
UniProt Related Accession #	O95450
GenBank Nucleotide #	NM_014244.4
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 2 isoform 1 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif, 2
NCBI Official Symbol	ADAMTS2
NCBI Official Synonym Symbols	NPI; PNPI; PCINP; PCPNI; PCI-NP; PC I-NP; ADAM-TS2; ADAMTS-2; ADAMTS-3
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 2
UniProt Synonym Protein Names	Procollagen I N-proteinase; PC I-NP; Procollagen I/II amino propeptide-processing enzyme; Procollagen N-endopeptidase; pNPI
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	ADAMTS2
UniProt Synonym Gene Names	PCINP; PCPNI; ADAM-TS 2; ADAM-TS2; ADAMTS-2; PC I-NP; pNPI
UniProt Entry Name	ATS2_HUMAN
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 2; procollagen I N-proteinase; procollagen N-endopeptidase; procollagen I/II amino propeptide-processing enzyme; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 2

NCBI Summary for ADAMTS2	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 enzyme encoded by this gene excises the N-propeptide of type I, type II and type V procollagens. Mutations in this gene cause Ehlers-Danlos syndrome type VIIC, a recessively inherited connective-tissue disorder. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2010]
UniProt Comments for ADAMTS2	ADAMTS2: Cleaves the propeptides of type I and II collagen prior to fibril assembly. Does not act on type III collagen. May also play a role in development that is independent of its role in collagen biosynthesis. Defects in ADAMTS2 are the cause of Ehlers-Danlos syndrome type 7C (EDS7C). EDS is a connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS7C is marked by extremely fragile tissues, hyperextensible skin and easy bruising. Facial skin contains numerous folds, as in the cutis laxa syndrome. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.24.14; Extracellular matrix; Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide; Protease Chromosomal Location of Human Ortholog: 5qter Cellular Component: proteinaceous extracellular matrix; extracellular region Molecular Function: zinc ion binding; metallopeptidase activity; metalloendopeptidase activity Biological Process: skin development; collagen catabolic process; extracellular matrix organization and biogenesis; collagen fibril organization; spermatogenesis; protein processing; proteolysis; lung development Disease: Ehlers-danlos Syndrome, Type Vii, Autosomal Recessive
Research Articles on ADAMTS2	**1.** ADAMTS-2, -3, and -13 expression, but not that of ADAMTS-14, are increased in plaques causing AMI compared those associated with stable angina.
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