A Disintegrin Like and Metalloproteinase with Thrombospondin Type 1 Motif 4 (ADAMTS4) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	A Disintegrin Like and Metalloproteinase With Thrombospondin Type 1 Motif 4 (ADAMTS4), ELISA Kit
Full Product Name	Human A Disintegrin Like and Metalloproteinase With Thrombospondin Type 1 Motif 4 ELISA Kit
Product Gene Name	ADAMTS4 elisa kit
Species Reactivity	Human
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	90,197 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (161159538..161168845, complement). Location: 1q21-q23
OMIM	603876
3D Structure	ModBase 3D Structure for O75173
Related Product Information for ADAMTS4 elisa kit	MBS027414 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the A Disintegrin Like and Metalloproteinase With Thrombospondin Type 1 Motif 4 (ADAMTS4) 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 ADAMTS4. The ELISA analytical biochemical technique of the MBS027414 kit is based on ADAMTS4 antibody-ADAMTS4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ADAMTS4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ADAMTS4. 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 ADAMTS4 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 ADAMTS4. It may not necessarily be applicable to this product.

NCBI GI #	157427675
NCBI GeneID	9507
NCBI Accession #	NP_005090.3
UniProt Primary Accession #	O75173
UniProt Secondary Accession #	Q5VTW2; Q6P4Q8; Q6UWA8; Q9UN83
UniProt Related Accession #	O75173
GenBank Nucleotide #	NM_005099.4
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 4 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif, 4
NCBI Official Symbol	ADAMTS4

NCBI Official Synonym Symbols	ADMP-1; ADAMTS-2; ADAMTS-4
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 4
UniProt Synonym Protein Names	ADMP-1; Aggrecanase-1
Protein Family	A disintegrin and metalloproteinase with thrombospondin motifs
UniProt Gene Name	ADAMTS4
UniProt Synonym Gene Names	KIAA0688; ADAM-TS 4; ADAM-TS4; ADAMTS-4
UniProt Entry Name	ATS4_HUMAN
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 4; ADAM-TS4; ADAM-TS 4; aggrecanase-1; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 4
NCBI Summary for ADAMTS4	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 lacks a C-terminal TS motif. It is responsible for the degradation of aggrecan, a major proteoglycan of cartilage, and brevican, a brain-specific extracellular matrix protein. The cleavage of aggrecan and brevican suggests key roles of this enzyme in arthritic disease and in the central nervous system, potentially, in the progression of glioma. [provided by RefSeq, Jul 2008]
UniProt Comments for ADAMTS4	ADAMTS4: Cleaves aggrecan, a cartilage proteoglycan, and may be involved in its turnover. May play an important role in the destruction of aggrecan in arthritic diseases. Could also be a critical factor in the exacerbation of neurodegeneration in Alzheimer disease. Cleaves aggrecan at the '392-Glu-|-Ala-393' site. Protein type: Secreted, signal peptide; Secreted; Protease; Motility/polarity/chemotaxis; EC 3.4.24.82 Chromosomal Location of Human Ortholog: 1q21-q23 Cellular Component: extracellular matrix; extracellular space; proteinaceous extracellular matrix; extracellular region Molecular Function: peptidase activity; protein binding; protease binding; metallopeptidase activity; zinc ion binding; metalloendopeptidase activity Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; defense response to bacterium; proteolysis; skeletal development
Research Articles on ADAMTS4	**1.** AMTS4 has roles in melanoma growth and angiogenesis
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