

Human ADAM Metallopeptidase With Thrombospondin Type 1 Motif4 (ADAMTS4) ELISA Kit | ADAMTS4 elisa kit

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CATALOG # AAA331109	REACTIVITY Human
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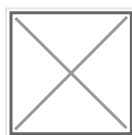
PRODUCT SYNONYMS

ADAM Metallopeptidase With Thrombospondin Type 1 Motif4 (ADAMTS4); Human ADAM Metallopeptidase With Thrombospondin Type 1 Motif4 (ADAMTS4) ELISA Kit; ADAMTS4; ADAMTS-2; ADAMTS-4; ADMP-1; KIAA0688; a disintegrin-like and metalloprotease (repolysin type) with thrombospondin type 1 motif; 4; aggrecanase-1; ADAMTS4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human ADAM metallopeptidase with thrombospondin type 1 motif4 (ADAMTS4) ELISA Kit has high sensitivity and excellent specificity for detection of Human ADAMTS4. No significant cross-reactivity or interference between Human ADAMTS4 and analogues was observed.
Sequence Length	837
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human ADAM metallopeptidase with thrombospondin type 1 motif4 (ADAMTS4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for ADAMTS4 elisa kit	Description: This Human ADAM metallopeptidase with thrombospondin type 1 motif4 (ADAMTS4) ELISA Kit employs a two-site sandwich ELISA to quantitate ADAMTS4 in samples. An antibody specific for ADAMTS4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ADAMTS4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADAMTS4 is added to the wells. After washing, Streptavidin 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 ADAMTS4 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: ADAMTS4 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 brevicin, a brain-specific extracellular matrix protein. The cleavage of aggrecan and brevicin suggests key roles of this enzyme in arthritic disease and in the central nervous system, potentially, in the progression of glioma.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	157427675
NCBI GeneID	9507
NCBI Accession #	NP_005090.3
NCBI GenBank Nucleotide #	NP_005090.3
UniProt Accession #	O75173
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 4 isoform 1 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
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.