

Human ADAM12 ELISA Kit | ADAM12 elisa kit

Human ADAM12 PicoKine ELISA Kit

CATALOG #
AAA45534

REACTIVITY
Human

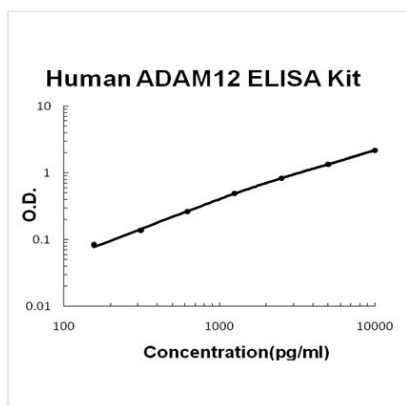
PRODUCT SYNONYMS

ADAM12; Human ADAM12 PicoKine ELISA Kit; Disintegrin and metalloproteinase domain-containing protein 12; ADAM metalloproteinase domain 12; ADA12_HUMAN; ADAM 12; MCMP; MCMPLtna; Meltrin-alpha; MLTN; MLTNA; ADAM12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human ADAM12
Sequence Length	909
Samples	Cell culture supernates, serum, plasma (heparin) and urine
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human ADAM12 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for ADAM12 elisa kit

Principle of the assay: human ADAM12 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for ADAM12 has been precoated onto 96-well plates. Standards(CHO, R29-S513) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ADAM12 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was 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 human ADAM12 amount of sample captured in plate. This kit recognizes pro-ADAM12, mature ADAM12, and ADAM12/TIMP-3 complex.

Background: ADAM12 (Disintegrin and metalloproteinase domain-containing protein 12), also known as MLTN, is an enzyme that in humans is encoded by the ADAM12 gene. This gene encodes a member of the ADAM (a disintegrin and metalloprotease) protein family. Members of this family are membrane-anchored proteins structurally related to snake venom disintegrins, and have been implicated in a variety of biological processes involving cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis. This gene has two alternatively spliced transcripts: a shorter secreted form and a longer membrane-bound form. The shorter form is found to stimulate myogenesis. By RT-PCR and immunoblot analyses that expression of mouse Adam12 increases during muscle regeneration, while the levels of other ADAMs remain constant. Immunofluorescence analysis revealed staining of small, newly formed muscle fibers in regenerating but not normal adult muscle cells. By using of fluorescence in situ hybridization, the ADAM12 gene is mapped to human chromosome 10q26.3.

NCBI AND UNIPROT INFORMATION

NCBI GI #	229463008
NCBI GeneID	8038
UniProt Accession #	O43184; O60470; Q5JRP0; Q5JRP1; Q6P9E3; Q6UWB0
Molecular Weight	80,263 Da
NCBI Official Full Name	Disintegrin and metalloproteinase domain-containing protein 12
NCBI Official Synonym Full Names	ADAM metalloproteinase domain 12
NCBI Official Symbol	ADAM12
NCBI Official Synonym Symbols	MCMP; MLTN; CAR10; MLTNA; MCMPMLtna; ADAM12-OT1
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 12; meltrin-alpha; metalloprotease-disintegrin 12 transmembrane
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 12
UniProt Gene Name	ADAM12
UniProt Synonym Gene Names	MLTN; ADAM 12
UniProt Entry Name	ADA12_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/adam12/45534>