

Mouse ADAM12 ELISA Kit | ADAM12 elisa kit

Mouse ADAM12 PicoKine ELISA Kit

CATALOG #
AAA45839

REACTIVITY
Mouse

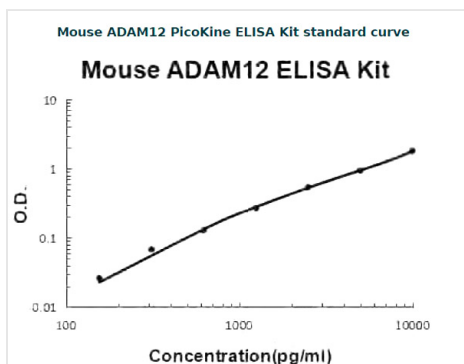
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Adam12
Sequence Length	903
Samples	Cell culture supernatants, serum and plasma (heparin)
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<10 pg/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 across 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)

ADDITIONAL INFORMATION

Related Product Information for ADAM12 elisa kit	Principle of the Assay: The Picokine™ Mouse Adam12 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Adam12 with a 96-well strip plate that is pre-coated with antibody specific for Adam12. The detection antibody is a biotinylated antibody specific for Adam12. The capture antibody is monoclonal antibody from rat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Adam12 with immunogen: Expression system for standard: NS0; Immunogen sequence: E206-G706. The kit is analytically validated with ready-to-use reagents. To measure Mouse Adam12, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbound ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Adam12 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Adam12 in the sample. Background/Introduction: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	408359953
NCBI GeneID	11489
UniProt Accession #	Q61824; F8VQN4
Molecular Weight	98,504 Da
NCBI Official Full Name	Disintegrin and metalloproteinase domain-containing protein 12
NCBI Official Synonym Full Names	a disintegrin and metalloproteinase domain 12 (meltrin alpha)
NCBI Official Symbol	Adam12
NCBI Official Synonym Symbols	Mltna; mKIAA4001
NCBI Protein Information	disintegrin and metalloproteinase domain-containing protein 12; ADAM 12; meltrin alpha; meltrin-alpha; a disintegrin and metalloprotease domain 12; a disintegrin and metalloproteinase domain 12 (meltrin alpha)
UniProt Protein Name	Disintegrin and metalloproteinase domain-containing protein 12
UniProt Gene Name	Adam12
UniProt Synonym Gene Names	Mltna; ADAM 12
UniProt Entry Name	ADA12_MOUSE

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.