

Mouse MMP-12 ELISA Kit | MMP12 elisa kit

Mouse MMP-12 PicoKine ELISA Kit

CATALOG #
AAA45945

REACTIVITY
Mouse

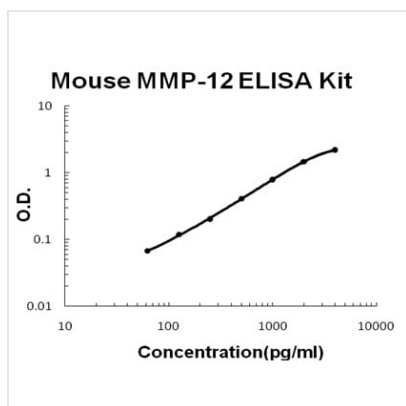
PRODUCT SYNONYMS

MMP-12; Mouse MMP-12 PicoKine ELISA Kit; Macrophage metalloelastase; matrix metallopeptidase 12 (macrophage elastase); EC 3.4.24.65; HME; Macrophage elastase; Macrophage metalloelastase; Matrix metallopeptidase 12 (macrophage elastase); Matrix metalloprotease 12; Matrix metalloproteinase-12; MGC138506; MME; MMP 12; Mmp12; MMP12_HUMAN; MMP12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant mouse MMP-12
Sequence Length	473
Samples	Cell culture supernates, serum and plasma (heparin)
Assay Type	Sandwich
Detection Range	62.5pg/ml-4000pg/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)

Mouse MMP-12 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for MMP12 elisa kit

Principle of the assay: mouse MMP-12 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for MMP-12 has been precoated onto 96-well plates. Standards(NSO, A18-C462) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MMP-12 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 mouse MMP-12 amount of sample captured in plate.

Background: Matrix metalloproteinase-12 (MMP12), also known as MME or ME, is an enzyme that in humans is encoded by the MMP12 gene. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.2. It is thought that the protein encoded by this gene is cleaved at both ends to yield the active enzyme, but this processing has not been fully described. The enzyme degrades soluble and insoluble elastin. It may play a role in aneurysm formation and studies in mice suggest a role in the development of emphysema. This gene may involved in tissue injury and remodeling.

NCBI AND UNIPROT INFORMATION

NCBI GI #	152031638
NCBI GeneID	17381
UniProt Accession #	P34960; Q3TB28; Q3TBV6; Q3TBV9; Q3TD61; Q3U1S8; Q3U1S9; Q3U2R8; Q3UBC5; Q4FJM7; Q8BJ92; Q8BJB3
Molecular Weight	54,971 Da
NCBI Official Full Name	Macrophage metalloelastase
NCBI Official Synonym Full Names	matrix metalloproteinase 12
NCBI Official Symbol	Mmp12
NCBI Official Synonym Symbols	Mmel; AV378681
NCBI Protein Information	macrophage metalloelastase; MME; MMP-12; macrophage elastase; macrophage-metalloelastase; matrix metalloproteinase 12; matrix metalloproteinase-12
UniProt Protein Name	Macrophage metalloelastase
UniProt Gene Name	Mmp12
UniProt Synonym Gene Names	Mme; Mmel; MME; MMP-12
UniProt Entry Name	MMP12_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.

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