

Rabbit matrix metalloproteinase 1 (interstitial collagenase) ELISA Kit | MMP1 elisa kit

Rabbit matrix metalloproteinase 1, MMP-1 ELISA Kit

CATALOG #
AAA80085

REACTIVITY
Rabbit

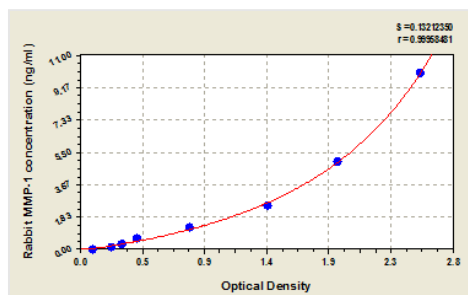
PRODUCT SYNONYMS

matrix metalloproteinase 1 (interstitial collagenase); Rabbit matrix metalloproteinase 1; MMP-1 ELISA Kit; MMP-1 ELISA kit; CLG; CLGN; fibroblast collagenase; matrix metalloproteinase 1; matrix metalloproteinase 1; MMP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rabbit
Specificity	This assay has high sensitivity and excellent specificity for detection of Rabbit MMP1. No significant cross-reactivity or interference between Rabbit MMP1 and analogues was observed.
Sequence Length	468
Samples	Serum, plasma, tissue homogenates
Assay Type	Competitive
Detection Range	0.156 ng/ml-10 ng/ml
Sensitivity	0.039 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Developmental Protein
Protein Biological Process 3	Collagen degradation
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MMP1 elisa kit	Introduction: Matrix metalloproteinase 1, also known as MMP-1, is a member of the matrix metalloproteinase (MMP) family. MMP family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. MMP-1 gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. The enzyme is expressed by a wide variety of cell types. MMP-1 is the only enzyme able to initiate breakdown of the interstitial collagens, collagen type 1, collagen type 2, and collagen type 3. MMP-1 plays an important role in diverse physiologic processes such as development, tissue morphogenesis, and wound repair. MMP-1 is synthesized as an inactive proform that requires proteolytic cleavage of N-terminal residues for activation. MMP-1 plays an important role in the remodeling of collagenous extracellular matrix in various physiologic and pathologic situations. MMP-1 also cleaves a number of non-matrix substrates and cell surface molecules, suggesting a role in the regulation of cellular behaviour in addition to its role in the turnover of collagen fibrils. Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. An antibody specific to MMP-1 has been pre-coated onto a microplate. Standards or samples are added to the appropriate microtiter plate wells with biotin-conjugated MMP-1 and incubated. A competitive inhibition reaction is launched between MMP-1 (Standards or samples) and Biotin-conjugated MMP-1 with the pre-coated antibody specific for MMP-1. The more amount of MMP-1 in samples, the less antibody bound by Biotin-conjugated MMP-1. Then Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The substrate solutions are added to the wells, respectively. And the color develops in opposite to the amount of MMP-1 in the sample. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	283837835
NCBI GeneID	100009110
NCBI Accession #	NP_001164610.1
NCBI GenBank Nucleotide #	NM_001171139.1
UniProt Accession #	P13943
Molecular Weight	53,740 Da
NCBI Official Full Name	interstitial collagenase
NCBI Official Symbol	MMP1
NCBI Official Synonym Symbols	MMP-1
NCBI Protein Information	interstitial collagenase; collagenase-1; matrix metalloproteinase-1
UniProt Protein Name	Interstitial collagenase
UniProt Gene Name	MMP1
UniProt Synonym Gene Names	MMP-1
UniProt Entry Name	MMP1_RABIT

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.