

Human MMP-9 ELISA Kit | MMP9 elisa kit

Human MMP-9 PicoKine ELISA Kit

CATALOG #
AAA11526

REACTIVITY
Human

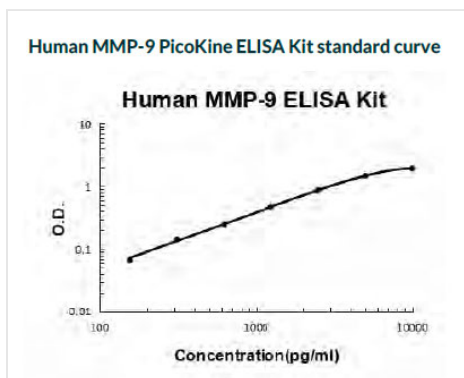
PRODUCT SYNONYMS

MMP-9; Human MMP-9 PicoKine ELISA Kit; Matrix metalloproteinase-9; matrix metalloproteinase 9 (gelatinase B; 92kDa gelatinase; 92kDa type IV collagenase); 82 kDa matrix metalloproteinase-9; 92 kDa gelatinase; 92 kDa type IV collagenase; CLG4B; Collagenase Type 4 beta; Collagenase type IV 92 KD; EC 3.4.24.35; Gelatinase 92 KD; Gelatinase B; Gelatinase beta; GelatinaseB; GELB; Macrophage gelatinase; MANDP2; Matrix metalloproteinase 9 (gelatinase B 92kDa gelatinase 92kDa type IV collagenase); Matrix metalloproteinase 9; MMP 9; MMP9; MMP9_HUMAN; Type V collagenase; MMP9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human MMP9
Sequence Length	707
Samples	Cell culture supernatants, serum, plasma (heparin), saliva and urine.
Detection Range	156 pg/ml - 10,000 pg/ml
Sensitivity	<5 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 MMP9 elisa kit	Background: The 92-kD type IV collagenase is also known as 92-kD gelatinase, type V collagenase, gelatinase B, or matrix metalloproteinase-9 (MMP9). The 72- and 92-kDa type IV collagenases are members of a group of secreted zinc metalloproteases. The matrix metalloproteinases (MMPs) are able to degrade the extracellular matrix and allow angiogenesis and tumor invasion. Gelatinase B, a matrix metalloproteinase that has proteolytic activity against connective tissue proteins, has been suggested to be important in the connective tissue remodeling processes associated with atherogenesis and plaque rupture. MMP-9 is predominantly expressed in neutrophils, macrophages, and mast cells, rather than in oncogene-positive neoplastic cells. The polymorphism of MMP-9 acts as a genetic factor for the development of smoking-induced pulmonary emphysema. The standard product used in this kit is recombinant human MMP-9 with the molecular mass of 95kDa. The detected MMP-9 includes zymogen and active enzyme. Principle of the Assay: The Picokine™ Human MMP9 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human MMP9 with a 96-well strip plate that is pre-coated with antibody specific for MMP9. The detection antibody is a biotinylated antibody specific for MMP9. The capture antibody is polyclonal antibody from goat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human MMP9 with immunogen: Expression system for standard: NS0; Immunogen sequence: A20-D707. The kit is analytically validated with ready-to-use reagents. To measure Human MMP9, 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 unbounded 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 Human MMP9 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 Human MMP9 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	269849668
NCBI GeneID	4318
UniProt Accession #	P14780; Q3LR70; Q8N725; Q9H4Z1; Q9UCJ9; Q9UCL1; Q9UDK2; B2R7V9
Molecular Weight	78,458 Da
NCBI Official Full Name	Matrix metalloproteinase-9
NCBI Official Synonym Full Names	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
NCBI Official Symbol	MMP9
NCBI Official Synonym Symbols	GELB; CLG4B; MMP-9; MANDP2
NCBI Protein Information	matrix metalloproteinase-9; 92 kDa gelatinase; type V collagenase; macrophage gelatinase; 92 kDa type IV collagenase; matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
UniProt Protein Name	Matrix metalloproteinase-9
UniProt Gene Name	MMP9
UniProt Synonym Gene Names	CLG4B; MMP-9; GELB
UniProt Entry Name	MMP9_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.