

Human MMP-9 ELISA Kit | MMP-9 elisa kit

Human MMP-9 ELISA KIT

CATALOG #
AAA309890

REACTIVITY
Human

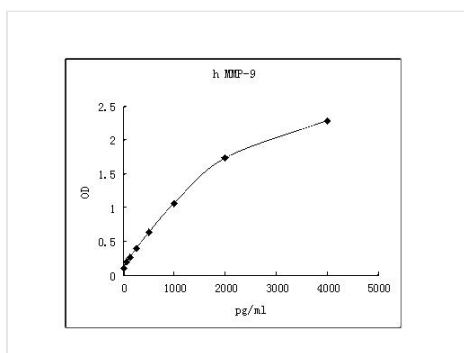
PRODUCT SYNONYMS

MMP-9; Human MMP-9 ELISA KIT; Human MMP-9; MMP-9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human MMP-9 Ligand
Assay Type	Solid Phase Sandwich ELISA
Samples	Cell culture supernatant, serum, plasma (EDTA, citrate, heparin)
Detection Range	62.5-4000pg/mL
Sensitivity	31pg/mL
Assay Time	3 hours
Sample Volume	20 uL
Detection Method	Colorimetric
Preparation and Storage	Store at 4 degree C

IMAGES



Standard Curve (Sample)

Representative standard curve for MMP-9 ELISA. MMP-9 was diluted in serial two-fold steps in Sample Diluent.

ADDITIONAL INFORMATION

Related Product Information for MMP-9 elisa kit	Matrix metalloproteinases (MMPs) are a family of zinc-dependent endopeptidases that degrade extracellular matrix proteins (1 - 3). They are secreted as zymogens (Pro-MMPs) that are activated by a variety of proteinases or by reaction with organic mercurials. They are inhibited by specific tissue inhibitors of metalloproteinases (TIMPs) and by 2-macroglobulin (3 - 6). The regulation of MMP activity is important in tissue remodeling, inflammation, tumor growth and metastasis (3, 7 - 9).Human MMP-9 (also known as gelatinase B) is secreted as a 92 kDa zymogen (2, 3). Cleavage of Pro-MMP-9 at or near residue 87 results in the active enzyme with a mass of approximately 82 kDa (1). MMP-9 has three fibronectin type II domains, a hemopexin-like domain and a proline-rich type V collagen-homologous domain (1 - 3). Pro-MMP-9 can be activated by MMP-3 (5) or by certain bacterial proteinases (10). MMP-9 is inhibited by 2-macroglobulin or by TIMP-1 (3 - 6), which binds to Pro-MMP-9 as well as to active MMP-9 (3). In vitro treatment of Pro-MMP-9 with 4-aminophenylmercuric acid (APMA) produces not only the 82 kDa active enzyme but also a C-terminal truncated form of approximately 65 kDa with the activity comparable to that of the 82 kDa form (11).Pro-MMP-9 is secreted by monocytes, macrophages, neutrophils, keratinocytes, fibroblasts, osteoclasts, chondrocytes, skeletal muscle satellite cells, endothelial cells, and various tumor cells (1, 7- 21). Pro-MMP-9 expression is upregulated by TGF- β 1, IL-1 β , TGF- α , PDGF-AB, TNF- α , and IL-1 α (7, 15, 17). Substrates for MMP-9 include denatured collagen type I (gelatin), native collagens type IV, V, VII, X and XI, fibrinogen, vitronectin, IL-1 β , and entactin, a molecule that bridges laminin and type IV collagen (3, 4, 6, 13, 21 - 23).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	74272287
NCBI GeneID	4318
NCBI Accession #	NP_004985.2
NCBI GenBank Nucleotide #	NM_004994.2
UniProt Accession #	P14780; Q3LR70; Q8N725; Q9H4Z1; Q9UCJ9; Q9UCL1; Q9UDK2; B2R7V9
Molecular Weight	78,458 Da
NCBI Official Full Name	matrix metalloproteinase-9 preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 9
NCBI Official Symbol	MMP9
NCBI Official Synonym Symbols	GELB; CLG4B; MMP-9; MANDP2
NCBI Protein Information	matrix metalloproteinase-9
UniProt Protein Name	Matrix metalloproteinase-9
UniProt Gene Name	MMP9
UniProt Synonym Gene Names	CLG4B; MMP-9; GELB

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/mmp-9/309890>