

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

MMP-9 Human ELISA Kit

CATALOG # AAA58878	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	Tissue Lysates Or Cell Culture Supernates, Human Serum And Plasma Should Be Validated By End Users
Assay Type	Sandwich
Detection Range	62.5 pg/ml-4000 pg/ml
Sensitivity	< 10pg/ml
Applicable Applications for MMP-9 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a Human MMP-9 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	Pg/ml	0	156	312	625	1250	2500	5000	10,000
Y	OD450	0.042	0.090	0.122	0.199	0.346	0.614	1.177	2.151

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MMP-9 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-M-CSF polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-M-CSF polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 M-CSF amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of M-CSF can be calculated!!

Background/Introduction: Macrophage colony-stimulating factor, or M-CSF, is a secreted cytokine which influences hematopoietic stem cells to differentiate into macrophages or other related cell types. Ladner et al. (1987) showed that there are 2 forms of M-CSF, with 224 and 522 amino acids, resulting from alternative splicing. It is a hematopoietic growth factor that is involved in the proliferation, differentiation, and survival of monocytes, macrophages, and bone marrow progenitor cells. It released by osteoblasts (as a result of endocrine stimulation by parathyroid hormone) exerts paracrine effects on osteoclasts. M-CSF binds to receptors on osteoclasts inducing differentiation, and ultimately leading to increased plasma calcium levels—through the resorption (breakdown) of bone. More recently, it was discovered that CSF-1 and its receptor CSF1R are implicated in the mammary gland during normal development and neoplastic growth.

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 (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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/mmp-9/58878>