

Human MMP-1 ELISA Kit | MMP-1 elisa kit

MMP-1 Human ELISA Kit

CATALOG # AAA58924	REACTIVITY Human	APPLICATIONS ELISA
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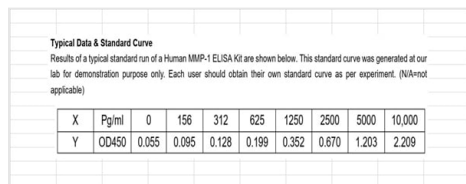
PRODUCT SYNONYMS

MMP-1; MMP-1 Human ELISA Kit; Human MMP-1; MMP-1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Human serum, plasma, body fluids, tissue lysates or cell culture supernatants
Detection Range	156 pg/ml-10,000 pg/ml
Sensitivity	< 10 pg/ml
Applicable Applications for MMP-1 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MMP-1 elisa kit

Background: Matrix metalloproteinase-1 (MMP-1), also known as interstitial collagenase and fibroblast collagenase[1], is a member of the matrix metalloproteinases family. Matrix metalloproteinases are zinc-dependent proteases that degrade extracellular matrix proteins. MMP-1 is structurally formed by different proteic building blocks. The Catalytic Domain of MMP-1 is composed of five highly twisted beta-strands (SI-SV), three alpha-helix (hA-hC) and a total of eight loops, enclosing a total of five metal ions, three Ca²⁺ and two Zn²⁺, one of which with catalytic role.[2] MMP1 in the stromal-tumor microenvironment can alter the behavior of cancer cells through PAR1 to promote cell migration and invasion.[3] The biologic implications of MMP1 acting as a molecular ratchet tethered to the cell surface suggested novel mechanisms for its role in tissue remodeling and cell-matrix interaction.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-MMP-1 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-MMP-1 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 MMP-1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of MMP-1 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	384131858
NCBI Accession #	YP_005514470.1
NCBI GenBank Nucleotide #	NC_017162.1
NCBI Official Full Name	Mmp-1

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-1/58924>