

Rat Matrix Metalloproteinase-9 ELISA Kit | MMP-9 elisa kit

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CATALOG #
AAA99622

REACTIVITY
Rat

PRODUCT SYNONYMS

Matrix Metalloproteinase-9; Rat Matrix Metalloproteinase-9 ELISA Kit; MMP-9 (Matrix Metalloproteinase 9)/CLG4B/Gelatinase B/GELB/macrophage gelatinase/MANDP2/MMP-9/type V collagenase; MMP-9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of MMP-8. No significant cross-reactivity or interference between MMP-8 and analogues was observed.
Sequence Length	708
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level MMP-8 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level MMP-8 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a MMP-9 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.107	0.330	0.476	0.687	1.034	1.414	1.829	2.213

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-MMP-8 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-MMP-8 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin 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-8 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of MMP-8 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	83921637
NCBI GeneID	654325
NCBI Accession #	NP_001033093.1
NCBI GenBank Nucleotide #	NM_001038004.1
NCBI Official Full Name	matrix metalloproteinase-9
NCBI Official Symbol	MMP9
NCBI Protein Information	matrix metalloproteinase-9

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/mmp-9-rat-elisa-kits/matrix-metalloproteinase-9/99622>