

Human Matrix Metalloproteinase 1 (MMP1) CLIA Kit | MMP1 clia kit

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CATALOG # AAA188845	REACTIVITY Human	APPLICATIONS CLIA (Chemiluminescence Immunoassay)
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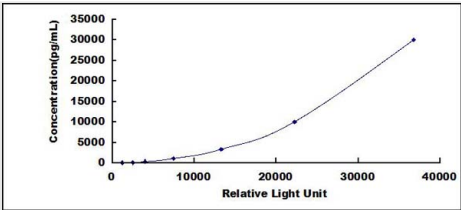
PRODUCT SYNONYMS

Matrix Metalloproteinase 1 (MMP1); Human Matrix Metalloproteinase 1 (MMP1) CLIA Kit; Matrix Metalloproteinase 1; CLGN; CLG1; Collagenase; Interstitial Collagenase; Vertebrate Collagenase; Fibroblast Collagenase; MMP1 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Matrix Metalloproteinase 1 (MMP1). No significant cross-reactivity or interference between Matrix Metalloproteinase 1 (MMP1) and analogues was observed.
Sequence Length	469
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	41.2-30,000pg/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 15.3pg/mL
Applicable Applications for MMP1 clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Matrix Metalloproteinase 1 (MMP1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Matrix Metalloproteinase 1 (MMP1) were tested on 3 different plates, 8 replicates in each plate. $CV(\%) = \frac{SD}{mean} \times 100$ Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate provided in this kit has been pre-coated with an antibody specific to Matrix Metalloproteinase 1 (MMP1). Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Matrix Metalloproteinase 1 (MMP1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Matrix Metalloproteinase 1 (MMP1) level in the sample or standard.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505215
NCBI GeneID	4312
NCBI Accession #	NP_002412.1
NCBI GenBank Nucleotide #	NP_002412.1
UniProt Accession #	P03956
NCBI Official Full Name	interstitial collagenase isoform 1 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 1
NCBI Official Symbol	MMP1
NCBI Official Synonym Symbols	CLG; CLGN
NCBI Protein Information	interstitial collagenase
UniProt Protein Name	Interstitial collagenase
UniProt Gene Name	MMP1
UniProt Synonym Gene Names	CLG; MMP-1
UniProt Entry Name	MMP1_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-clia-kits/matrix-metalloproteinase-1-mmp1/188845>