

Human MMP13 ELISA Kit | MMP13 elisa kit

Human MMP13 ELISA Kit

CATALOG # AAA105633	REACTIVITY Human	APPLICATIONS ELISA
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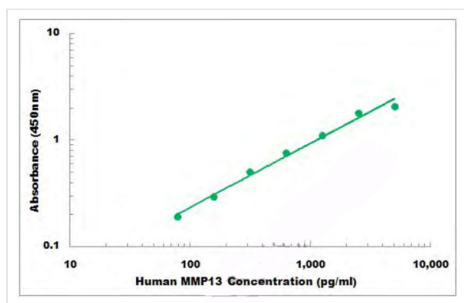
PRODUCT SYNONYMS

MMP13; Human MMP13 ELISA Kit; Collagenase 3; Matrix metalloproteinase-13; MMP-13; MMP13 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human MMP13 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human MMP13 proteins within the range of 78 pg/ml - 5000 pg/ml.
Sequence Length	471
Samples	Culture Supernatants, Serum, Plasma
Sensitivity	< 5 pg/ml
Applicable Applications for MMP13 elisa kit	ELISA (Sandwich ELISA)
Detection Method	Colorimetric
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MMP13 elisa kit	Background: Collagenase 3 is an enzyme that in humans is encoded by the MMP13 gene. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The protein encoded by this gene cleaves type II collagen more efficiently than types I and III. The expression of MMP13 in osteoarthritic cartilage and its activity against type II collagen indicates that the enzyme plays a significant role in cartilage collagen degradation and must, therefore, form part of a complex target for proposed therapeutic interventions based on collagenase inhibition. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Principle of the Assay: The AAA Biotech' Human MMP13 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human MMP13 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Human MMP13 coated on a 96-well plate. Standards and samples are pipetted into the wells and MMP13 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human MMP13 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of MMP13 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505209
NCBI GeneID	4322
NCBI Accession #	NP_002418.1
NCBI GenBank Nucleotide #	NM_002427.3
UniProt Accession #	P45452; Q6NWN6; A8K846; B2RCZ3
Molecular Weight	53,820 Da
NCBI Official Full Name	collagenase 3 preproprotein
NCBI Official Synonym Full Names	matrix metalloproteinase 13 (collagenase 3)
NCBI Official Symbol	MMP13
NCBI Official Synonym Symbols	CLG3; MANDP1; MMP-13
NCBI Protein Information	collagenase 3; matrix metalloproteinase 13 (collagenase 3)
UniProt Protein Name	Collagenase 3
UniProt Gene Name	MMP13
UniProt Synonym Gene Names	MMP-13
UniProt Entry Name	MMP13_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/mmp13/105633>