

Mouse Matrix Metalloproteinase 13 (MMP-13) ELISA Kit | MMP-13 elisa kit

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CATALOG #
AAA332410

REACTIVITY
Mouse

PRODUCT SYNONYMS

Matrix Metalloproteinase 13 (MMP-13); Mouse Matrix Metalloproteinase 13 (MMP-13) ELISA Kit; MMP13; CLG3; MANDP1; collagenase 3; matrix metalloproteinase 13; matrix metalloproteinase 13 (collagenase 3); MMP-13 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Mouse Matrix metalloproteinase 13 (MMP-13) ELISA Kit has high sensitivity and excellent specificity for detection of Mouse MMP13. No significant cross-reactivity or interference between Mouse MMP13 and analogues was observed.
Sequence Length	472
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Mouse Matrix metalloproteinase 13 (MMP-13) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MMP-13 elisa kit	Description: This Mouse Matrix metalloproteinase 13 (MMP-13) ELISA Kit employs a two-site sandwich ELISA to quantitate MMP13 in samples. An antibody specific for MMP13 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MMP13 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MMP13 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of MMP13 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Mmp13 encodes a member of the matrix metalloproteinase family that plays a role in wound healing, skeletal development and bone remodeling. The encoded protein is activated by the removal of an N-terminal activation peptide to generate a zinc-dependent endopeptidase enzyme that can cleave various native collagens, including types I - IV, X and XIV. Mice lacking the encoded protein display profound defects in growth plate cartilage as well as a delay in the endochondral bone development. Lack of the encoded protein also impairs the wound healing process due to reduced keratinocyte migration and vascular density at the wound site. Mmp13 is located in a cluster of other matrix metalloproteinase genes on chromosome 9.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6678896
NCBI GeneID	17386
NCBI Accession #	NP_032633.1
NCBI GenBank Nucleotide #	NP_032633.1
UniProt Accession #	P33435
NCBI Official Full Name	collagenase 3 preproprotein
NCBI Official Synonym Full Names	matrix metallopeptidase 13
NCBI Official Symbol	Mmp13
NCBI Official Synonym Symbols	Clg; Mmp1; MMP-13
NCBI Protein Information	collagenase 3
UniProt Protein Name	Collagenase 3
UniProt Gene Name	Mmp13
UniProt Synonym Gene Names	MMP-13

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/mouse-elisa-kits/matrix-metalloproteinase-13-mmp-13/332410>