

Rat matrix metalloproteinase 8 (neutrophil collagenase) ELISA Kit | MMP8 elisa kit

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CATALOG #
AAA80125

REACTIVITY
Rat

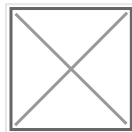
PRODUCT SYNONYMS

matrix metalloproteinase 8 (neutrophil collagenase); Rat matrix metalloproteinase 8 (neutrophil collagenase); MMP8 ELISA Kit; Rat matrix metalloproteinase 8 (neutrophil collagenase) (MMP8) ELISA kit; CLG1; HNC; PMNL-CL; PMNL collagenase; matrix metalloproteinase 8; matrix metalloproteinase 8 (neutrophil collagenase) ; MMP8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Rat MMP8. No significant cross-reactivity or interference between Rat MMP8 and analogues was observed.
Sequence Length	466
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.312 ng/ml-20 ng/ml
Sensitivity	0.078 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Developmental Protein
Protein Biological Process 3	Collagen degradation
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MMP8 elisa kit	Introduction: Matrix metalloproteinase 8 (neutrophil collagenase), also known as MMP8, is a human gene. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. However, the enzyme encoded by this gene is stored in secondary granules within neutrophils and is activated by autolytic cleavage. Its function is degradation of type I, II and III collagens. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to MMP-8. Standards or samples are then added to the appropriate microtiter plate wells with a 3 biotin-conjugated antibody preparation specific for MMP-8 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain MMP-8, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of MMP-8 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11560008
NCBI GeneID	63849
NCBI Accession #	NP_071557.1
NCBI GenBank Nucleotide #	NM_022221.1
UniProt Accession #	O88766
Molecular Weight	53,277 Da
NCBI Official Full Name	neutrophil collagenase
NCBI Official Synonym Full Names	matrix metalloproteinase 8
NCBI Official Symbol	Mmp8
NCBI Protein Information	neutrophil collagenase
UniProt Protein Name	Neutrophil collagenase
UniProt Gene Name	Mmp8
UniProt Synonym Gene Names	MMP-8
UniProt Entry Name	MMP8_RAT

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/mmp8-rat-elisa-kits/matrix-metalloproteinase-8-neutrophil-collagenase/80125>