

Rat MMP2 ELISA Kit | MMP2 elisa kit

Rat MMP2 ELISA Kit

CATALOG # AAA105958	REACTIVITY Rat	APPLICATIONS ELISA
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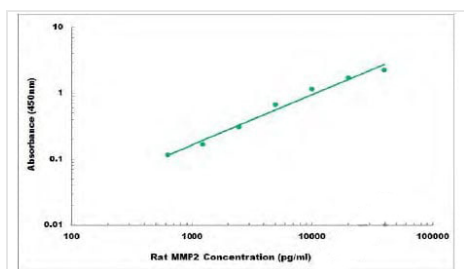
PRODUCT SYNONYMS

MMP2; Rat MMP2 ELISA Kit; CLG4A; 72 kDa type IV collagenase; 72 kDa gelatinase; Gelatinase A; Matrix metalloproteinase-2; MMP-2; TBE-1; MMP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat MMP2 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat MMP2 proteins within the range of 625 pg/ml - 40000 pg/ml.
Sequence Length	662
Samples	Cell culture supernatants, serum, plasma
Sensitivity	< 300 pg/ml
Applicable Applications for MMP2 elisa kit	ELISA (Sandwich ELISA)
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 MMP2 elisa kit	Principle of the Assay: The AAA Biotech' Rat MMP2 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat MMP2 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Rat MMP2 coated on a 96-well plate. Standards and samples are pipetted into the wells and MMP2 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat MMP2 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 MMP2 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Type IV collagenase, 72-kD, is officially designated matrix metalloproteinase-2 (MMP2). It is also known as gelatinase, 72-kD. MMP-2 plays an essential role in angiogenesis and arteriogenesis, two processes critical to restoration of tissue perfusion after ischemia. MMP-2 expression is increased in tissue ischemia, but the responsible mechanisms remain unknown. Matrix metalloproteinases (MMPs) catalyze extracellular matrix degradation. Control of their activity is a promising target for therapy of diseases characterized by abnormal connective tissue turnover. MMPs are expressed as latent proenzymes that are activated by proteolytic cleavage that triggers a conformational change in the propeptide (cysteine switch). The structure of proMMP-2 reveals how the propeptide shields the catalytic cleft and that the cysteine switch may operate through cleavage of loops essential for propeptide stability. The gene is localized to 16q21 using somatic cell hybrids and in situ hybridization.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	146262019
NCBI GeneID	81686
NCBI Accession #	NP_112316.2
NCBI GenBank Nucleotide #	NM_031054.2
UniProt Accession #	P33436; P97581; Q6GMM9
Molecular Weight	74,149 Da
NCBI Official Full Name	72 kDa type IV collagenase
NCBI Official Synonym Full Names	matrix metalloproteinase 2
NCBI Official Symbol	Mmp2
NCBI Protein Information	72 kDa type IV collagenase; MMP-2; gelatinase A; 72 kDa gelatinase; matrix metalloproteinase 2; matrix metalloproteinase-2
UniProt Protein Name	72 kDa type IV collagenase
UniProt Gene Name	Mmp2
UniProt Synonym Gene Names	MMP-2
UniProt Entry Name	MMP2_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.