

Rat MMP-2 ELISA Kit | MMP2 elisa kit

Rat MMP-2 PicoKine ELISA Kit

CATALOG #
AAA45268

REACTIVITY
Rat

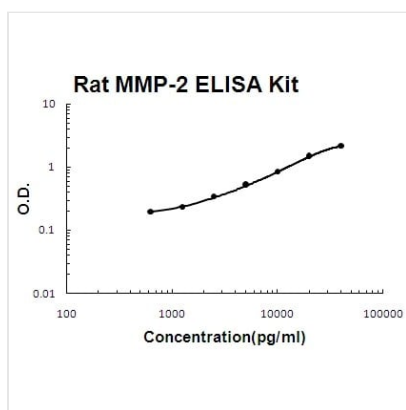
PRODUCT SYNONYMS

MMP-2; Rat MMP-2 PicoKine ELISA Kit; 72 kDa type IV collagenase; matrix metalloproteinase 2 (gelatinase A; 72kDa gelatinase; 72kDa type IV collagenase); 72 kDa gelatinase; CLG 4; CLG 4A; CLG4; CLG4A; Collagenase type IV A; EC 3.4.24.24; Gelatinase A; Gelatinase alpha; Gelatinase neutrophil; Matrix metalloproteinase 2 (gelatinase A; Matrix metalloproteinase 2; Matrix metalloproteinase 2 (gelatinase A; 72kD gelatinase; 72kD type IV collagenase); Matrix metalloproteinase II; Matrix metalloproteinase-2; MMP 2; MMP II; MMP2; MMP2_HUMAN; MONA; Neutrophil gelatinase; PEX; TBE 1; TBE-1; MMP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat total MMP-2
Sequence Length	662
Samples	Cell culture supernates, serum and plasma (heparin)
Assay Type	Sandwich
Detection Range	156pg/ml-10,000pg/ml
Sensitivity	< 10pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Rat MMP-2 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for MMP2 elisa kit	Principle of the assay: rat MMP-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for MMP-2 has been precoated onto 96-well plates. Standards (NSO,A30-C662) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MMP-2 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat MMP-2 amount of sample captured in plate. Background: 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.¹ Matrix metalloproteinases (MMPs) catalyze extracellular matrixdegradation. 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.² The gene is localized to 16q21 using somatic cell hybrids and in situhybridization.³ The standard product used in this kit is recombinant rat MMP-2, consisting of 662 amino acids withthe molecular mass of 72KDa. The detected MMP-2 includes zymogen and active enzyme.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	146345459
NCBI GeneID	81686
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 metallopeptidase 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.