

Datasheet for ABIN6719913
MMP2 ELISA Kit



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1 Image

Overview

Quantity:	1 kit
Target:	MMP2
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	625 pg/mL - 40000 pg/mL
Minimum Detection Limit:	625 pg/mL
Application:	ELISA

Product Details

Purpose:	Rat MMP-2 Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant rat total MMP-2. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	• Antibody-coated 96-well plate • Target Protein Standard • Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target:	MMP2
Alternative Name:	MMP-2 (MMP2 Products)
Background:	Synonyms: 72 kDa gelatinase, 72 kDa type IV collagenase, 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, 72 kDa gelatinase, 72 kDa type IV collagenase), Matrix metalloproteinase 2, Matrix metalloproteinase 2 (gelatinase A, 72kD gelatinase, 72kD type IV collagenase), Matrix metalloproteinase II, Matrix metalloproteinase-2, MMP 2, MMP II, MMP-2, MMP2, MMP2_HUMAN, MONA, Neutrophil gelatinase, PEX, TBE 1, TBE-1 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 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.² The gene is localized to 16q21 using somatic cell hybrids and in situ hybridization.³ The standard product used in this kit is recombinant rat MMP-2, consisting of 662 amino acids with the molecular mass of 72KDa. The detected MMP-2 includes zymogen and active enzyme.
Gene ID:	81686
NCBI Accession:	NP_112316
UniProt:	P33436
Pathways:	Activation of Innate immune Response

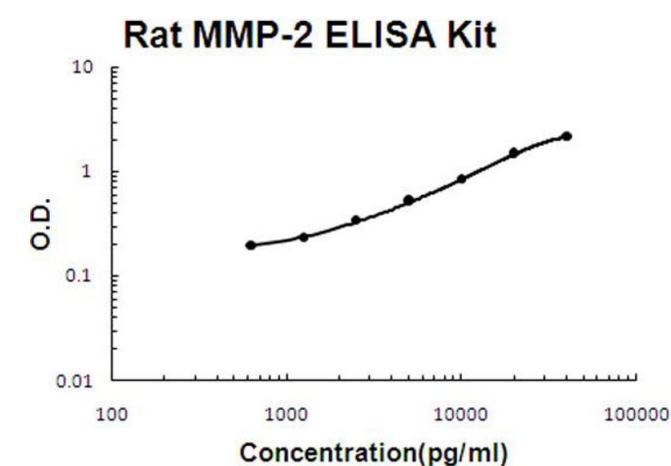
Application Details

Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 40000pg/mL, 20,000pg/mL,10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL rat MMP-2 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of rat cell culture supernates, serum or plasma (heparin) to each empty well. It is recommended that each rat MMP-2 standard solution and each sample be measured in duplicate.
Comment:	Standard: Expression system for standard: NSO, Immunogen sequence: A30-C662
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiry Date:	12 months

Images



ELISA

Image 1. Rat MMP-2 Accusignal ELISA Kit Rat MMP-2 AccuSignal ELISA Kit standard curve. Assay Range: 625pg/ml-40000pg/ml. Sensitivity: <10pg/ml.