





Rat matrix metalloproteinase 2/Gelatinase A,MMP-2 ELISA kit

Product Code	CSB-E07411r
Abbreviation	MMP2
Protein Biological Process 1	Angiogenesis
Target Name	matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)
Uniprot No.	P33436
Alias	CLG4, CLG4A, MMP-II, MONA, TBE-1, collagenase type IV-A matrix metalloproteinase 2 matrix metalloproteinase-II neutrophil gelatinase
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	0.625 ng/mL-40 ng/mL
Sensitivity	0.156 ng/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cancer
Gene Names	Mmp2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat MMP2 ELISA Kit was designed for the quantitative measurement of Rat MMP2 protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL.
Target Details	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

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disease processes, such as arthritis and metastasis. Most MMP s are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat MMP-2 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:5	Average %	92
	Range %	88-96
1:10	Average %	93
	Range %	90-93
1:20	Average %	89
	Range %	84-94
1:40	Average %	96
	Range %	91-100

Recovery

The recovery of rat MMP-2 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	91	87-96
EDTA plasma (n=4)	103	95-108

Typical

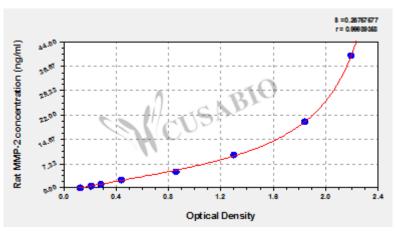
These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.











ng/ml OD1 OD2 Average Corrected

40 2.194 2.283 2.239 2.093 1.804 1.959 1.882 20 1.736 10 1.280 1.386 1.333 1.187 5 0.891 0.870 0.881 0.735 0.455 0.464 0.460 0.314 1.25 0.297 0.307 0.302 0.156 $0.625\,0.228\,0.225\,0.227$ 0.081 0.142 0.150 0.146 ?

Msds

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