

ARG81152 Rat MMP9 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81152 Rat MMP9 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat MMP9 in serum, plasma, cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	MMP9
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	78 pg/ml
Sample Type	Serum, plasma, cell culture supernatants.
Standard Range	156.25 - 10000 pg/ml
Sample Volume	100 µl
Alternate Names	Matrix metalloproteinase-9; 92 kDa gelatinase; MMP-9; Gelatinase B; GELB; CLG4B; MANDP2; EC 3.4.24.35; 92 kDa type IV collagenase

Application Instructions

Assay Time	~ 3.5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 81687 Rat Swiss-port # P50282 Rat
Gene Symbol	Mmp9
Gene Full Name	matrix metalloproteinase 9
Background	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. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the

enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008]

Function

May play an essential role in local proteolysis of the extracellular matrix and in leukocyte migration. Could play a role in bone osteoclastic resorption. Cleaves KiSS1 at a Gly-|-Leu bond. Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments. Degrades fibronectin but not laminin or Pz-peptide. [UniProt]

Highlight

Related products:

[MMP9 antibodies](#); [MMP9 ELISA Kits](#); [MMP9 Duos / Panels](#);

Related news:

[Rat MMP9 ELISA Kit is available in arigo](#)

[New MMP7 \(total or active\) ELISA kits are released](#)

[Detecting MMPs and their non-ECM substrates](#)

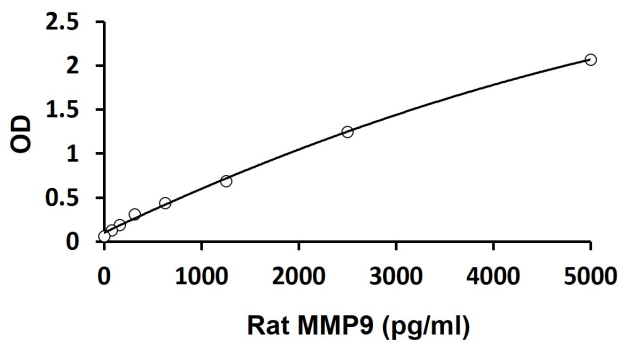
New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

PTM

Processing of the precursor yields different active forms of 64, 67 and 82 kDa. Sequentially processing by MMP3 yields the 82 kDa matrix metalloproteinase-9. N- and O-glycosylated.

Images



ARG81152 Rat MMP9 ELISA Kit standard curve image

ARG81152 Rat MMP9 ELISA Kit results of a typical standard run with optical density reading at 450 nm.