

ARG80129 Human MMP9 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80129-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80129-002	Standard (Lyophilized)	3 X 2 ng/vial	4°C
ARG80129-003	Standard diluent buffer	20 ml	4°C
ARG80129-004	Antibody conjugate concentrate	400 µl	4°C
ARG80129-005	Antibody diluent buffer	20 ml	4°C
ARG80129-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80129-007	HRP-Streptavidin diluent buffer	20 ml	4°C
ARG80129-008	20X Wash buffer	50 ml	4°C
ARG80129-009	TMB substrate	12ml	4°C (Protect from light)
ARG80129-010	STOP solution	12ml	4°C
ARG80129-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80129 Human MMP9 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human MMP9 in Serum, Plasma, Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human MMP-1,2,3,7,8,10,12,13,14;TIMP-2,3,4
Target Name	MMP9
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	15.6 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	31.25 - 2000 pg/ml
Sample Volume	100 µl

Precision	CV: less than10%
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

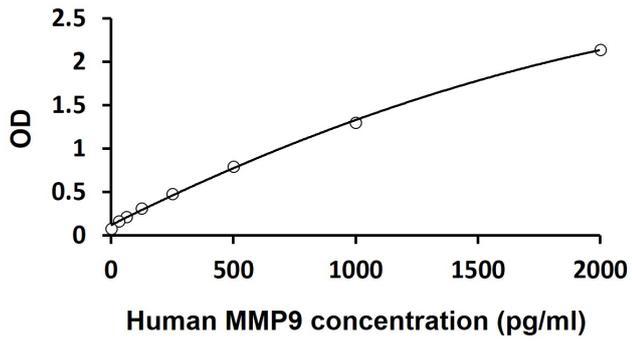
Assay Time	4 hours
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Properties

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

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	<p>Related products: MMP9 antibodies; MMP9 ELISA Kits; MMP9 Duos / Panels;</p> <p>Related news: Tumor microenvironments are shown to affect progression of several cancer subtypes Rat MMP9 ELISA Kit is available in arigo New MMP7 (total or active) ELISA kits are released Detecting MMPs and their non-ECM substrates</p> <p>New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>
Research Area	Cancer kit; Cell Biology and Cellular Response kit; Signaling Transduction kit
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.



ARG80129 Human MMP9 ELISA Kit standard curve image

ARG80129 Human MMP9 ELISA Kit results of a typical standard run with optical density reading at 450 nm.