

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

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| 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 |

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Precision | CV: less than 10% |
| 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

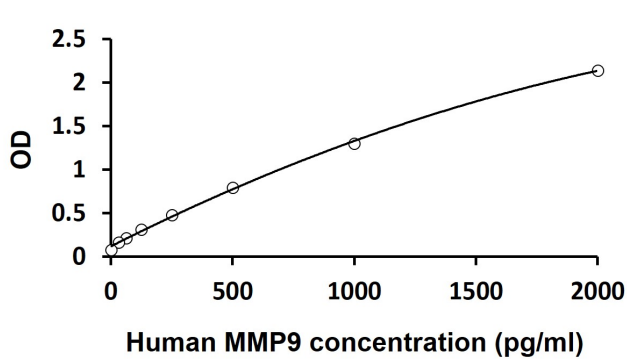
| | |
|------------|---------|
| Assay Time | 4 hours |
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Properties

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| 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

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|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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-I-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:</p> <p>MMP9 antibodies; MMP9 ELISA Kits; MMP9 Duos / Panels;</p> <p>Related news:</p> <p>Tumor microenvironments are shown to affect progression of several cancer subtypes</p> <p>Rat MMP9 ELISA Kit is available in arigo</p> <p>New MMP7 (total or active) ELISA kits are released</p> <p>Detecting MMPs and their non-ECM substrates</p> <p>New ELISA data calculation tool:</p> <p>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.