

## Rat MMP9 ELISA Kit | MMP9 elisa kit

Rat MMP-9 PicoKine ELISA Kit

CATALOG #  
**AAA46665**

REACTIVITY  
**Rat**

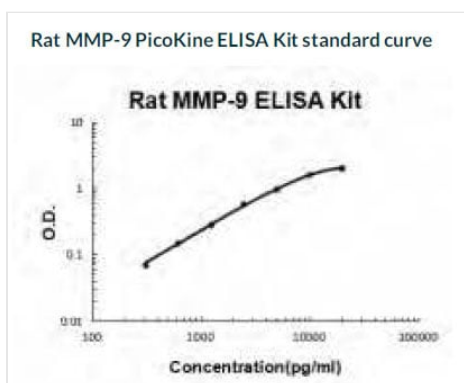
### PRODUCT SYNONYMS

MMP9; Rat MMP-9 PicoKine ELISA Kit; 67 kDa matrix metalloproteinase-9; 82 kDa matrix metalloproteinase-9; 92 kDa gelatinase; 92 kDa type IV collagenase; CLG 4B; CLG4B; Collagenase type IV 92 KD; EC 3.4.24.35; Gelatinase 92 KD; Gelatinase B; Gelatinase beta; GELB; Macrophage gelatinase; MANDP2; Matrix metalloproteinase 9; Matrix metalloproteinase9; Matrix metalloproteinase-9; MMP 9; mmp 9 kit; MMP-9; P50282; matrix metallopeptidase 9; MMP9 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                   |
| Specificity             | Natural and recombinant Rat Mmp9                                                                                                                      |
| Sequence Length         | 708                                                                                                                                                   |
| Samples                 | Cell culture supernatants, serum and plasma (heparin)                                                                                                 |
| Detection Range         | 312 pg/ml - 20,000 pg/ml                                                                                                                              |
| Sensitivity             | <15 pg/ml                                                                                                                                             |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.      |
| Inter-assay Precision   | Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice).                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Related Product Information for MMP9 elisa kit | <p>Background: Matrix metalloproteinase 9 (MMP-9) is also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB). The 72- and 92-kDa type IV collagenases are members of a group of secreted zinc metalloproteases. The matrix metalloproteinases (MMPs) are able to degrade the extracellular matrix and allow angiogenesis and tumor invasion. MMP-9 is predominantly expressed in neutrophils, macrophages, and mast cells, rather than in oncogene-positive neoplastic cells. The polymorphism of MMP-9 acts as a genetic factor for the development of smoking-induced pulmonary emphysema.</p> <p>Principle of the Assay: The Picokine™ Rat Mmp9 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Rat Mmp9 with a 96-well strip plate that is pre-coated with antibody specific for Mmp9. The detection antibody is a biotinylated antibody specific for Mmp9. The kit includes Human Mmp9 protein as standards. To measure Mmp9, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mmp9 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mmp9 in the sample.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                            |
|----------------------------------|----------------------------|
| NCBI GI #                        | 13591993                   |
| NCBI GeneID                      | 81687                      |
| NCBI Accession #                 | NP_112317.1                |
| NCBI GenBank Nucleotide #        | NM_031055.1                |
| UniProt Accession #              | P50282                     |
| Molecular Weight                 | 78,611 Da                  |
| NCBI Official Full Name          | matrix metalloproteinase-9 |
| NCBI Official Synonym Full Names | matrix metalloproteinase 9 |
| NCBI Official Symbol             | Mmp9                       |
| NCBI Protein Information         | matrix metalloproteinase-9 |
| UniProt Protein Name             | Matrix metalloproteinase-9 |
| UniProt Gene Name                | Mmp9                       |
| UniProt Synonym Gene Names       | MMP-9; GELB                |
| UniProt Entry Name               | MMP9_RAT                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.