

## Rabbit Matrix Metalloproteinase 1 (MMP1) ELISA Kit | MMP1 elisa kit

Rabbit Matrix Metalloproteinase 1 (MMP1) High Sensitive ELISA Kit

|                               |                             |                              |
|-------------------------------|-----------------------------|------------------------------|
| CATALOG #<br><b>AAA188478</b> | REACTIVITY<br><b>Rabbit</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|-----------------------------|------------------------------|

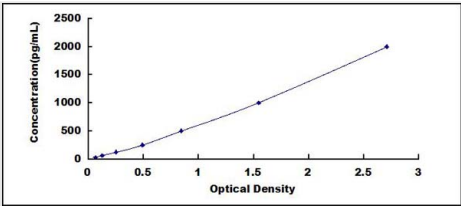
### PRODUCT SYNONYMS

Matrix Metalloproteinase 1 (MMP1); Rabbit Matrix Metalloproteinase 1 (MMP1) High Sensitive ELISA Kit; Matrix Metalloproteinase 1; CLGN; CLG1; Collagenase; Interstitial Collagenase; Vertebrate Collagenase; Fibroblast Collagenase; MMP1 elisa kit

### PRODUCT SPECIFICATIONS

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                 | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Specificity                                | This assay has high sensitivity and excellent specificity for detection of High Sensitive Matrix Metalloproteinase 1 (MMP1).<br>No significant cross-reactivity or interference between High Sensitive Matrix Metalloproteinase 1 (MMP1) and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence Length                            | 468                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Assay Type                                 | Double-antibody Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Samples                                    | Serum, plasma and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Detection Range                            | 31.2-2000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Sensitivity                                | The minimum detectable dose of this kit is typically less than 11.5pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicable Applications for MMP1 elisa kit | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Precision                                  | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level High Sensitive Matrix Metalloproteinase 1 (MMP1) were tested 20 times on one plate, respectively.<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level High Sensitive Matrix Metalloproteinase 1 (MMP1) were tested on 3 different plates, 8 replicates in each plate.<br>CV(%) = SD/meanX100<br>Intra-Assay: CV<10%<br>Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Test Principle                             | The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to High Sensitive Matrix Metalloproteinase 1 (MMP1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to High Sensitive Matrix Metalloproteinase 1 (MMP1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain High Sensitive Matrix Metalloproteinase 1 (MMP1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of High Sensitive Matrix Metalloproteinase 1 (MMP1) in the samples is then determined by comparing the O.D. of the samples to the standard curve. |
| Preparation and Storage                    | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

IMAGES



Standard Curve (Sample)

NCBI AND UNIPROT INFORMATION

|                               |                          |
|-------------------------------|--------------------------|
| NCBI GI #                     | 283837835                |
| NCBI GeneID                   | 100009110                |
| NCBI Accession #              | NP_001164610.1           |
| NCBI GenBank Nucleotide #     | NP_001164610.1           |
| UniProt Accession #           | P13943                   |
| NCBI Official Full Name       | interstitial collagenase |
| NCBI Official Symbol          | MMP1                     |
| NCBI Official Synonym Symbols | MMP-1                    |
| NCBI Protein Information      | interstitial collagenase |
| UniProt Protein Name          | Interstitial collagenase |
| UniProt Gene Name             | MMP1                     |
| UniProt Synonym Gene Names    | MMP-1                    |

**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.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-elisa-kits/matrix-metalloproteinase-1-mmp1/188478>