

## Canine Interstitial Collagenase (MMP1) ELISA Kit | MMP1 elisa kit

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CATALOG #  
**AAA247452**

REACTIVITY  
**Canine**

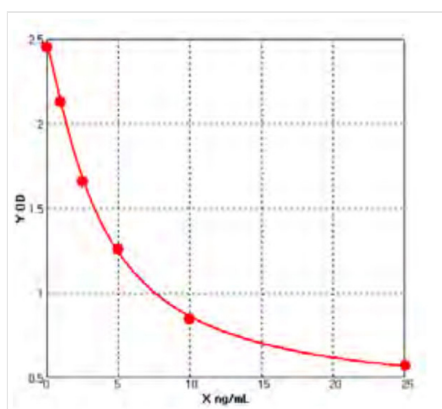
### PRODUCT SYNONYMS

Interstitial Collagenase (MMP1); Canine Interstitial Collagenase (MMP1) ELISA Kit; MMP1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Canine                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of MMP1. No significant cross-reactivity or interference between MMP1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between MMP1 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Sequence Length         | 469                                                                                                                                                                                                                                                                                                                                                                                      |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                 |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                               |
| Sensitivity             | 0.1 ng/ml                                                                                                                                                                                                                                                                                                                                                                                |
| Reactivity Note         | No significant cross-reactivity or interference between this antigen and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection, therefore, cross reaction may still exist in some cases.                                                                                                             |
| Preparation and Storage | Store at 2-8 degree C.<br>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.                                                                                                                                                                                     |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for MMP1 elisa kit | <p>Principle of the Assay: MMP1 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-MMP1 antibody and an MMP1-HRP conjugate. The assay sample and buffer are incubated together with MMP1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the MMP1 concentration since MMP1 from samples and MMP1-HRP conjugate compete for the anti-MMP1 antibody binding site. Since the number of sites is limited, as more sites are occupied by MMP1 from the sample, fewer sites are left to bind MMP1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The MMP1 concentration in each sample is interpolated from this standard curve.</p> <p>Intended Uses: This MMP1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine MMP1. This ELISA kit for research use only, not for therapeutic or test applications!</p> |
| Product Categories/Family for MMP1 elisa kit   | Signal Transduction; Cancer; Cell Biology; Cardiovascular                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                                  |                                                  |
|----------------------------------|--------------------------------------------------|
| NCBI GI #                        | 4505215                                          |
| NCBI GeneID                      | 4312                                             |
| NCBI Accession #                 | NP_002412.1                                      |
| NCBI GenBank Nucleotide #        | NM_002421.4                                      |
| UniProt Accession #              | P03956; P08156                                   |
| Molecular Weight                 | 54,007 Da                                        |
| NCBI Official Full Name          | interstitial collagenase isoform 1 preproprotein |
| NCBI Official Synonym Full Names | matrix metalloproteinase 1                       |
| NCBI Official Symbol             | MMP1                                             |
| NCBI Official Synonym Symbols    | CLG; CLGN                                        |
| NCBI Protein Information         | interstitial collagenase                         |
| UniProt Protein Name             | Interstitial collagenase                         |
| UniProt Gene Name                | MMP1                                             |
| UniProt Synonym Gene Names       | CLG; 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/canine-elisa-kits/interstitial-collagenase-mmp1/247452>