

Mouse MMP-8 Antibody Pair Set

| | | | |
|--------------------|--|---------------------|-------|
| Catalog No. | E-KAB-0121 | Applications | ELISA |
| Synonyms | MMP8, CLG1, HNC, PMNL-CL, Neutrophil Collagenase | | |

Kit components & Storage

| Title | Specifications | Storage |
|---|----------------|---|
| Mouse MMP-8 Capture Antibody | 1 vial, 100 µg | Store at -20°C for one year. Avoid freeze / thaw cycles. |
| Mouse MMP-8 Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20°C for one year. Avoid freeze / thaw cycles. |

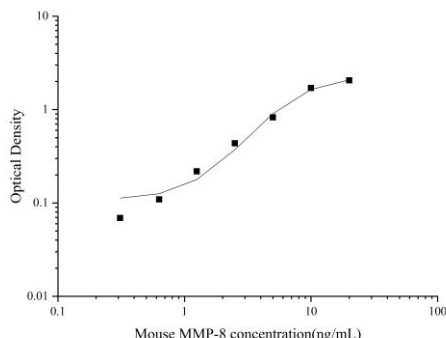
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

| Items | | Characteristic (E-KAB-0121) | |
|-----------------------|---------------|--|---|
| | | Mouse MMP-8 Capture Antibody | Mouse MMP-8 Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Mouse MMP-8 protein | Recombinant Mouse MMP-8 protein |
| | Swissprot | O70138 | |
| Product details | Reactivity | Mouse | Mouse |
| | Host | Rabbit | Rabbit |
| | Conjugation | Unconjugated | Biotin |
| | Concentration | 0.5mg/mL | / |
| | Buffer | PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
| | Purify | Protein A & Antigen Affinity | Protein A & Antigen Affinity |
| | Specificity | Detects Mouse MMP-8 in ELISAs. | |

Applications

Mouse MMP-8 Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------------------|---|---|-----------------------------------|-----------------|-----|------|-----|-----|---|-----|---|-----|---|-----|----|-----|----|-----|
| ELISA Capture | 0.5-4µg/mL | Mouse MMP-8 Capture Antibody |  <p>The graph is a log-log plot of Optical Density versus Mouse MMP-8 concentration (ng/mL). The y-axis (Optical Density) ranges from 0.01 to 10, and the x-axis (concentration) ranges from 0.1 to 100. The data points show a clear upward trend, indicating that as the concentration of Mouse MMP-8 increases, the optical density also increases. The curve is fitted with a smooth line.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Mouse MMP-8 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>0.2</td> <td>0.05</td> </tr> <tr> <td>0.5</td> <td>0.1</td> </tr> <tr> <td>1</td> <td>0.2</td> </tr> <tr> <td>2</td> <td>0.4</td> </tr> <tr> <td>5</td> <td>0.8</td> </tr> <tr> <td>10</td> <td>1.5</td> </tr> <tr> <td>20</td> <td>2.5</td> </tr> </tbody> </table> | Mouse MMP-8 concentration (ng/mL) | Optical Density | 0.2 | 0.05 | 0.5 | 0.1 | 1 | 0.2 | 2 | 0.4 | 5 | 0.8 | 10 | 1.5 | 20 | 2.5 |
| Mouse MMP-8 concentration (ng/mL) | Optical Density | | | | | | | | | | | | | | | | | | |
| 0.2 | 0.05 | | | | | | | | | | | | | | | | | | |
| 0.5 | 0.1 | | | | | | | | | | | | | | | | | | |
| 1 | 0.2 | | | | | | | | | | | | | | | | | | |
| 2 | 0.4 | | | | | | | | | | | | | | | | | | |
| 5 | 0.8 | | | | | | | | | | | | | | | | | | |
| 10 | 1.5 | | | | | | | | | | | | | | | | | | |
| 20 | 2.5 | | | | | | | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Mouse MMP-8 Detection Antibody (Biotin) | | | | | | | | | | | | | | | | | |

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

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. However, the enzyme encoded by this gene is stored in secondary granules within neutrophils and is activated by autolytic cleavage. Its function is degradation of type I, II and III collagens. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3.