Anti-MMP9 Antibody

Catalog Number: PA1357

About MMP9

Matrix metalloproteinase 9 (MMP-9), also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB), is an enzyme that in humans is encoded by the MMP9 gene. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes. Most MMPs 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.

Overview

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Anti-MMP9 Antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactive Species</td>
<td>Human</td>
</tr>
<tr>
<td>Description</td>
<td>Rabbit IgG polyclonal antibody for Matrix metalloproteinase-9 (MMP9) detection. Tested with WB in Human.</td>
</tr>
<tr>
<td>Conjugate</td>
<td>No</td>
</tr>
<tr>
<td>Application</td>
<td>WB</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Formulation</td>
<td>Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.</td>
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<tr>
<td>Storage Instructions</td>
<td>At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.</td>
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<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Uniprot ID</td>
<td>P14780</td>
</tr>
</tbody>
</table>

Technical Details

| Immunogen              | A synthetic peptide corresponding to a sequence at the C-terminus of human MMP-9(689-705aa NQVDQVGYVTDILQCP), different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids. |
| Predicted Reactive Species | Hamster |
**Recommended Detection Systems**
Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.

**Cross Reactivity**
No cross reactivity with other proteins

**Isotype**
N/A

**Form**
Lyophilized

**Concentration**
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Purification**
Immunogen affinity purified.

**Suggested Dilutions**
Western blot, 0.1-0.5μg/ml, Human, Rat

For protocols please visit [https://www.bosterbio.com/protocol-and-troubleshooting/](https://www.bosterbio.com/protocol-and-troubleshooting/)

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**Anti-MMP9 Antibody (PA1357) Images**

Anti-MMP-9 antibody, PA1357, Western blotting
Lane 1: Rat Embryo Tissue Lysate
Lane 2: MM453 Cell Lysate
Lane 3: HELA Cell Lysate
Lane 4: SMMC Cell Lysate
Lane 5: JURKAT Cell Lysate
Lane 6: HT1080 Cell Lysate

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