

MMP8

Mouse Anti-Human Matrix Metalloproteinase 8 mAb

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| Catalog No. | CMM117 | Quantity: | 100 µg |
| Alternate Names: | Matrix Metalloproteinase 8, Neutrophil Collagenase, PMNL Collagenase, CLG1, HNC, PMNL-CL | | |
| Gene ID: | 4317 | | |
| Description: | <p>Mouse Anti-Human MMP8 monoclonal antibody. The antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse immunized with purified human recombinant human MMP-8).</p> <p>Matrix metalloproteinases (MMPs) are a family of zinc and calcium dependent endopeptidases with the combined ability to degrade all the components of the extracellular matrix. MMP8 (neutrophil collagenase) is expressed in neutrophils, where it is stored in specific granules. MMP8 release from the neutrophils is stimulated by various factors such as interleukins 1 and 8, TNF alpha and GM-CSF. MMP8 is capable of cleaving types I, II and III triplehelical collagen, gelatin peptides, fibronectin, proteoglycans, aggrecan, serpins, beta casein and peptides such as angiotensin and substance P. In addition to its function in phagocytosis, MMP8 has a high capacity for infiltrating connective tissue, and is implicated in the breakdown of the extracellular matrix in diseases such as rheumatoid arthritis. Structurally, MMP8 consists of several domains: a prodomain that is cleaved upon activation, a catalytic domain containing the zinc-binding site, a short hinge region and a hemopexinlike domain. MMP8 is heavily glycosylated.</p> | | |
| Specificity: | Recognizes Human MMP8 | | |
| Host: | Mouse | | |
| Immunogen: | Recombinant Human MMP8 | | |
| Isotype: | IgG2 | | |
| Clone: | 7A11 | | |
| Formulation: | Lyophilized from a sterile filtered solution in PBS | | |
| Purification: | Protein G affinity chromatography | | |
| Reconstitution: | Centrifuge vial prior to opening. Add 0.5 mL sterile distilled water. | | |
| Cross-Reactivity: | No cross-reactivity with other human MMPs | | |
| Applications: | <p>Western blot: (1:400-1,000).</p> <p>Immunohistochemistry (Paraffin): (1:50-200)</p> <p>The optimal concentration should be determined by the user for each specific application.</p> | | |
| Storage & Stability: | <p>Lyophilized samples are stable for at least 2 years from date of receipt when stored at ≤ -20°C. Reconstituted antibody can be aliquotted and stored frozen at ≤ -20°C for at least 6 months without detectable loss of activity. Avoid repeated freeze-thaw cycles.</p> | | |

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