



# MMP-1 Monoclonal Antibody

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Reactivity  Applications  WB  Gene Name  MMP1  Protein Name  Interstitial collagenase  Immunogen  The antiserum was produced against synthesized peptide derived from human MMP-1. AA range:411-460  Specificity  MMP-1 Monoclonal Antibody detects endogenous levels of MMP-1 protein.  Formulation  Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.  Source  Monoclonal, Mouse,IgG  Purification  The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.  Dillution  WB 1:500-2000  Concentration  1 mg/ml  Purity  290%  Storage Stability  -20°C/1 year  Synonyms  MMP1; CLG; Interstitial collagenase; Fibroblast collagenase; Matrix metalloproteinase-1; MMP-1  Observed Band  54kD  Cell Pathway  Secreted, extracellular space, extracellular matrix.  Tissue Specificity  Fibroblast,Ovary,Synovial cell,Synovial membrane,Thyroid,  catalytic activity:Cleavage of the triple helix of collagen at about three-quarters of the length of the molecule from the N-terminus, at 775-Gly-I-lie-776 in the alpha-1(l) chain. Cleaves synthetic substrates and alpha-amacroglobulins at bonds where P1' is a hydrophobic residue, cofactor-Binds 2 inc ions per subunit, domain: The conserved cysteine from the Size in ons per subunit, domain: The conserved cysteine prometin this protein; the catalytic zinc ion; thus inhibiting the enzyme. The dissociation of the cysteine from the vice to into upon the activation-peptide release activates the enzyme, domain: The reare two distinct domains in this protein; the catalytic V-terminal, and the C-terminal which is	Catalog No	BYmab-02676
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metalloproteinases).,enzyme regulation:Can be activated without removal of the activation peptide.,function:Cleaves col

#### **Background**

matrix metallopeptidase 1(MMP1) Homo sapiens This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this 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. The encoded preproprotein is proteolytically processed to generate the mature protease. This secreted protease breaks down the interstitial collagens, including types I, II, and III. The gene is part of a cluster of MMP genes on chromosome 11. Mutations in this gene are associated with chronic obstructive pulmonary disease (COPD). Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016],

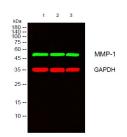
## matters needing attention

Avoid repeated freezing and thawing!

### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### **Products Images**



Western Blot analysis of various cells using MMP-1 Monoclonal Antibody

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