

MMP-1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11067**Specification**

MMP-1 Antibody - Product Information

Application	WB
Primary Accession	P03956
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54007

MMP-1 Antibody - Additional Information**Gene ID** 4312

Positive Control	Recombinant human MMP-1
Application & Usage	Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually.

Other Names

Interstitial collagenase, 3.4.24.7, Fibroblast collagenase, Matrix metalloproteinase-1, MMP-1, 22 kDa interstitial collagenase, 27 kDa interstitial collagenase, MMP1, CLG

Target/Specificity

MMP-1

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

MMP-1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MMP-1 Antibody - Protein Information

Name MMP1

Synonyms CLG

Function

Cleaves collagens of types I, II, and III at one site in the helical domain. Also cleaves collagens of types VII and X (PubMed:2557822, PubMed:2153297, PubMed:1645757). In case of HIV infection, interacts and cleaves the secreted viral Tat protein, leading to a decrease in neuronal Tat's mediated neurotoxicity (PubMed:16807369).

Cellular Location

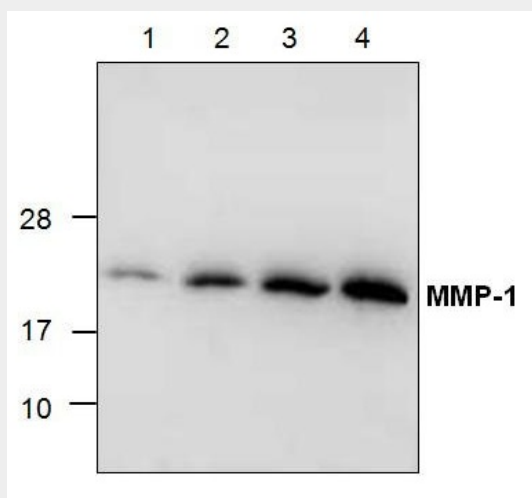
Secreted, extracellular space, extracellular matrix

MMP-1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MMP-1 Antibody - Images



Western blot analysis of MMP-1 using recombinant human MMP-1. Lane 1: 20 ng; Lane 2: 50 ng; Lane 3: 100 ng; Lane 4: 200 ng

MMP-1 Antibody - Background

Matrix metalloproteinases (MMPs) are zinc-dependent endopeptidases that degrade substances within the extracellular matrix. The MMP family includes six different groups of enzymes: collagenases, gelatinases, stromelysins, transmembrane MMPs, matrilysins and others. MMPs are secreted as proenzymes that have to be cleaved in order to be activated. Other MMPs, plasmins as well as other factors activate MMPs. MMPs are thought to play an important role in tissue remodeling associated with various physiological and pathological processes. MMP1 cleaves collagens of types I, II, III, VII and X. MMP1 is thought to play an important role in rheumatoid and osteo-arthritis pathogenesis as mediators of cartilage and bone destruction.