

MMP-12 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10389**Specification**

MMP-12 Antibody - Product Information

Application	WB
Primary Accession	P39900
Other Accession	NP_002417
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	54002

MMP-12 Antibody - Additional Information**Gene ID** 4321**Application & Usage**

Western blotting (1-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes a ~50 kDa band from samples of human origin. Reactivity to other species has not been tested. Jurkat cell lysate can be used as a positive control.

Other Names

HME; MME , Matrix metalloproteinase

Target/Specificity

MMP-12

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.2 mg/ml) protein A purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions

Precautions

MMP-12 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MMP-12 Antibody - Protein Information

Name MMP12

Synonyms HME

Function

May be involved in tissue injury and remodeling. Has significant elastolytic activity. Can accept large and small amino acids at the P1' site, but has a preference for leucine. Aromatic or hydrophobic residues are preferred at the P1 site, with small hydrophobic residues (preferably alanine) occupying P3.

Cellular Location

Secreted, extracellular space, extracellular matrix

Tissue Location

Found in alveolar macrophages but not in peripheral blood monocytes

MMP-12 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-12 Antibody - Images**MMP-12 Antibody - Background**

The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, fibronectin, laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-12 (also designated macrophage metalloelastase) is produced in alveolar macrophages and degrades elastin. MMP-12 may contribute to elastin degradation occurring in granulomatous skin diseases and may also participate in macrophage migration through the epidermal and vascular basement membranes in inflammatory disorders.