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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 Cytomety
- 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 thro µgh the epidermal and vascular basement membranes in inflammatory disorders.