

**Anti-MMP-12 Antibody**  
Catalog # ABO11456**Specification**

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**Anti-MMP-12 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P39900</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Macrophage metalloelastase(MMP12) detection. Tested with WB in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-MMP-12 Antibody - Additional Information**

**Gene ID** 4321

**Other Names**

Macrophage metalloelastase, MME, 3.4.24.65, Macrophage elastase, ME, hME, Matrix metalloproteinase-12, MMP-12, MMP12, HME

**Calculated MW**

54002 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted, extracellular space, extracellular matrix .

**Tissue Specificity**

Found in alveolar macrophages but not in peripheral blood monocytes.

**Protein Name**

Macrophage metalloelastase

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Thimerosal, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human MMP12(428-444aa KIDAVFYSKNKYYYYFFQ).

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Sequence Similarities**

Belongs to the peptidase M10A family.

**Anti-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

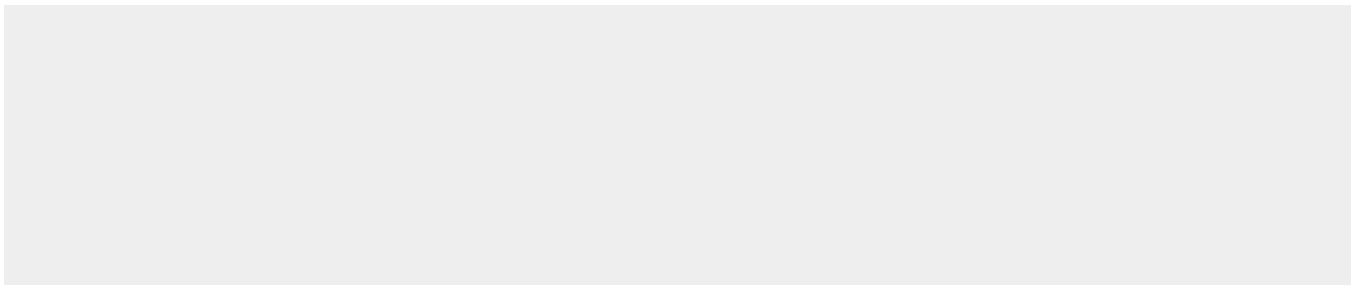
**Tissue Location**

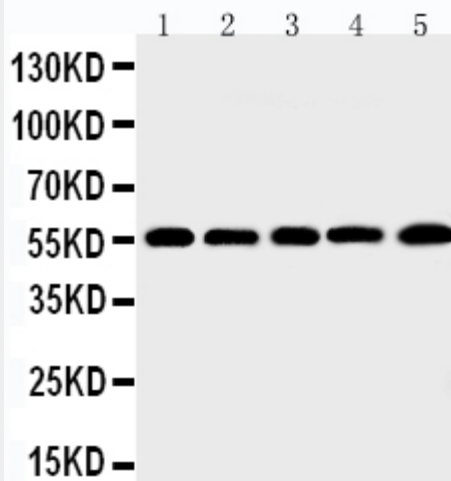
Found in alveolar macrophages but not in peripheral blood monocytes

**Anti-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](#)

**Anti-MMP-12 Antibody - Images**



Anti-MMP12 antibody, ABO11456, Western blotting  
Lane 1: SMMC Cell Lysate  
Lane 2: HEPA Cell Lysate  
Lane 3: HELA Cell Lysate  
Lane 4: K562 Cell Lysate  
Lane 5: MCF-7 Cell Lysate

#### **Anti-MMP-12 Antibody - Background**

Matrix metalloproteinase-12 (MMP12), also known as MME or ME, is an enzyme that in humans is encoded by the MMP12 gene. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.2. It is thought that the protein encoded by this gene is cleaved at both ends to yield the active enzyme, but this processing has not been fully described. The enzyme degrades soluble and insoluble elastin. It may play a role in aneurysm formation and studies in mice suggest a role in the development of emphysema. This gene may be involved in tissue injury and remodeling.