

Anti-MMP-12 Antibody

Catalog # ABO11456

Product Information

Application	WB
Primary Accession	P39900
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.

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
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Secreted, extracellular space, extracellular matrix .
Tissue Specificity	Found in alveolar macrophages but not in peripheral blood monocytes.
Source	Eukaryota
Protein Name	Macrophage metalloelastase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MMP12(428-444aa KIDAVFYSKNKYYYFFQ).
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.

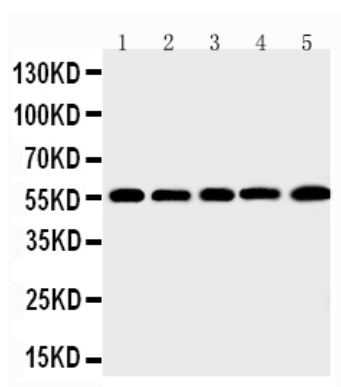
Protein Information

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

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 though 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 involved in tissue injury and remodeling.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.