

Anti-MMP-1 Antibody

Catalog # ABO12411

Product Information

Application	WB
Primary Accession	P03956
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Interstitial collagenase(MMP1) detection. Tested with WB in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	4312
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
Calculated MW	54007
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Secreted, extracellular space, extracellular matrix .
Source	Eukaryota
Protein Name	Interstitial collagenase
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human MMP1 (194-231aa DAHFEDEDERWTNNFREYNLHRVAAHELGHSLGLSHSTD).
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.

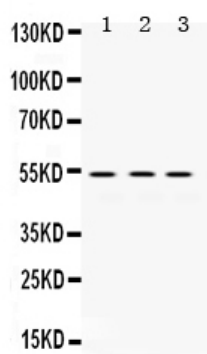
Protein Information

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: 1645757 , PubMed: 2153297 , PubMed: 2557822). 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

Background

Matrix metalloproteinase-1 (MMP-1), also known as interstitial collagenase and fibroblast collagenase, is an enzyme that in humans is encoded by the MMP1 gene. MMP-1 was the first vertebrate collagenase both purified to homogeneity as a protein, and cloned as a cDNA. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. It is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.

Images



Anti- MMP1 Picoband antibody, ABO12411, Western blotting All lanes: Anti MMP1 (ABO12411) at 0.5ug/ml Lane 1: SMMC Whole Cell Lysate at 40ug Lane 2: 22RV1 Whole Cell Lysate at 40ug Lane 3: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 54KD Observed bind size: 54KD

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