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MMP-9 Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11607

Specification

MMP-9 Antibody - Product Information

Application	**WB, IHC, IP**
Primary Accession	P14780
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**78458**

MMP-9 Antibody - Additional Information

Gene ID 4318

Other Names
MMP9, MMP-9, MMP 9, Matrix metalloproteinase-9, Matrix metalloproteinase 9, Gelatinase B, 92kDa type IV collagenase

Target/Specificity
MMP-9

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit anti-rat MMP-9 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Background Descriptions

Precautions
MMP-9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MMP-9 Antibody - Protein Information

Name MMP9

Synonyms CLG4B

Function
Matrix metalloproteinase that plays an essential role in local proteolysis of the extracellular matrix and in leukocyte migration (PubMed:12879005, PubMed:<a href="http://www.uniprot.org/citations/1480034"

target="_blank">1480034, PubMed:2551898). Could play a role in bone osteoclastic resorption (By similarity). Cleaves KiSS1 at a Gly-|-Leu bond (PubMed:12879005). Cleaves NINJ1 to generate the Secreted ninjurin-1 form (PubMed:32883094). Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments (PubMed:1480034). Degrades fibronectin but not laminin or Pz-peptide.

Cellular Location
Secreted, extracellular space, extracellular matrix

Tissue Location
Detected in neutrophils (at protein level) (PubMed:7683678). Produced by normal alveolar macrophages and granulocytes.

MMP-9 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-9 Antibody - Images

MMP-9 Antibody - Background

The mammalian Matrix metalloproteinases (MMPs) degrade extracellular matrix in physiological and pathological processes. After cleavage of a single peptide domain of about 20 amino acids, the MMPs are secreted in latent forms. Upon activation, the N-terminal propeptide domain is cleaved to generate the active forms of MMP. MMP-9 (92 kDa type IV collagenase, Gelatinase-B) contains the basic structure of propeptide, catalytic, and hemopexin domains. It is an important proteinase in tissue remodeling.