

MMP-9 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10387**Specification**

MMP-9 Antibody - Product Information

Application	WB
Primary Accession	P14780
Other Accession	AAM97934
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	78458

MMP-9 Antibody - Additional Information**Gene ID** 4318

Application & Usage	Western blotting (0.5-4 µg/ml). However, the optimal concentrations should be determined individually. The antibody recognizes the full length (proenzyme, 92 kDa) and cleaved (active enzyme, 84 kDa) MMP-9 in samples from human, mouse, and rat origins.
---------------------	---

Other Names

GELB , EC 3.4.24.35 , CLG4B , Matrix metalloproteinase

Target/Specificity

MMP-9

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) peptide affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

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:2551898, PubMed:1480034, PubMed:12879005). Could play a role in bone osteoclastic resorption (By similarity). Cleaves KiSS1 at a Gly-I-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

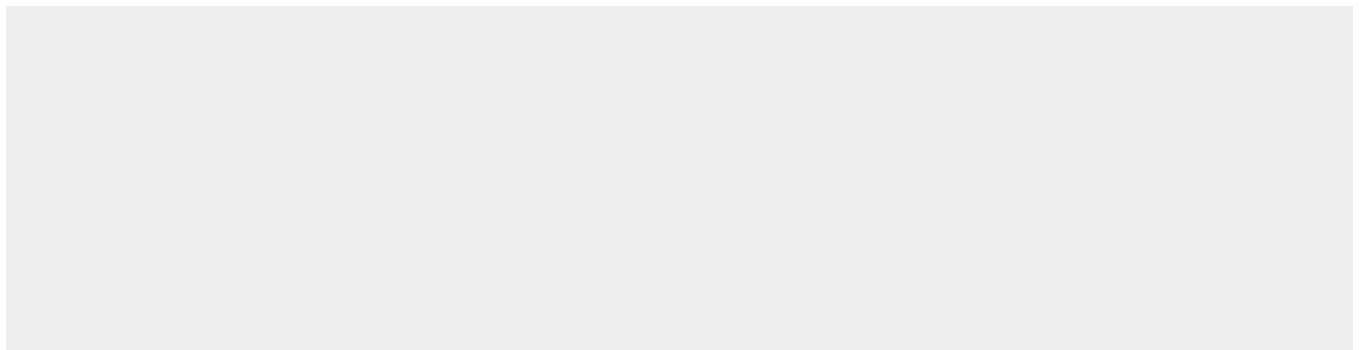
Tissue Location

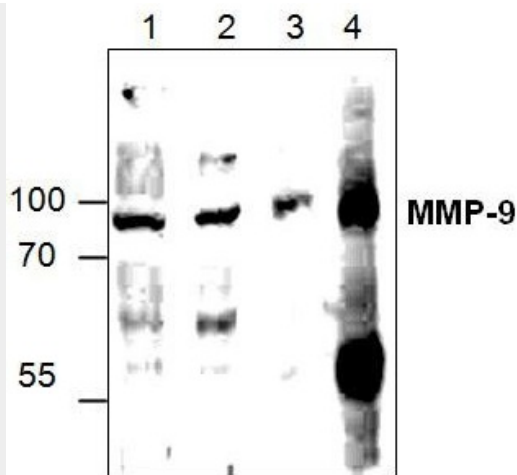
Detected in neutrophils (at protein level) (PubMed:7683678). Produced by normal alveolar macrophages and granulocytes.

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 Cytometry](#)
- [Cell Culture](#)

MMP-9 Antibody - Images



Western blot analysis of MMP-9 expression in Jurkat cell lysate (Lane 1, 2), Mouse 3T3 cell lysate (Lane 3) and Rat kidney tissue lysate (Lane 4).

MMP-9 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-9 (also designated 92-kDa type IV collagenase or gelatinase B) has been shown to degrade bone collagens in concert with MMP-1 (also designated interstitial collagenase, fibroblast collagenase or collagenase-1), and cysteine proteases and may play a role in bone osteoclastic resorption.