

**MMP-9 Antibody**  
**Purified Rabbit Polyclonal Antibody**  
**Catalog # ABV11607****Specification**

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**MMP-9 Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">P14780</a>
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:&lt;a href="http://www.uniprot.org/citations/2551898" target="\_blank"&gt;2551898&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/1480034" target="\_blank"&gt;1480034&lt;/a&gt;)

target="\_blank">1480034</a>, PubMed:<a href="http://www.uniprot.org/citations/12879005" target="\_blank">12879005</a>). Could play a role in bone osteoclastic resorption (By similarity). Cleaves KiSS1 at a Gly-I-Leu bond (PubMed:<a href="http://www.uniprot.org/citations/12879005" target="\_blank">12879005</a>). Cleaves NINJ1 to generate the Secreted ninjurin-1 form (PubMed:<a href="http://www.uniprot.org/citations/32883094" target="\_blank">32883094</a>). Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N-terminal one quarter fragments (PubMed:<a href="http://www.uniprot.org/citations/1480034" target="\_blank">1480034</a>). 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**

### **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.