

**MMP9 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16581b**

**Specification**

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**MMP9 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P14780</a>
Other Accession	<a href="#">NP_004985.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	78458
Antigen Region	549-578

**MMP9 Antibody (C-term) - Additional Information**

**Gene ID** 4318

**Other Names**

Matrix metalloproteinase-9, MMP-9, 92 kDa gelatinase, 92 kDa type IV collagenase, Gelatinase B, GELB, 67 kDa matrix metalloproteinase-9, 82 kDa matrix metalloproteinase-9, MMP9, CLG4B

**Target/Specificity**

This MMP9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 549-578 amino acids from the C-terminal region of human MMP9.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MMP9 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MMP9 Antibody (C-term) - 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:[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**

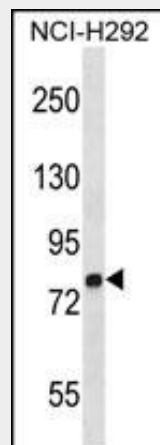
Detected in neutrophils (at protein level) (PubMed:7683678). Produced by normal alveolar macrophages and granulocytes.

### **MMP9 Antibody (C-term) - 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](#)

### **MMP9 Antibody (C-term) - Images**



MMP9 Antibody (C-term) (Cat. #AP16581b) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the MMP9 antibody detected the MMP9 protein (arrow).

### **MMP9 Antibody (C-term) - Background**

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. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq].

#### **MMP9 Antibody (C-term) - References**

Lacchini, R., et al. Clin. Chim. Acta 411 (23-24), 1940-1944 (2010) :  
Chambers, M.A., et al. Biochem. Biophys. Res. Commun. 400(3):403-408(2010)  
Beeghly-Fadiel, A., et al. Breast Cancer Res. Treat. (2010) In press :  
Szcudlik, P., et al. Neurol. Neurochir. Pol. 44(4):350-357(2010)  
Mossbock, G., et al. Mol. Vis. 16, 1764-1770 (2010) :