

**Anti-MMP-9 Antibody**  
**Catalog # ABO12355****Specification****Anti-MMP-9 Antibody - Product Information**

Application	WB, IHC-P, E
Primary Accession	<a href="#">P41245</a>
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Matrix metalloproteinase-9(MMP9) detection. Tested with WB, IHC-P, ELISA in Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-MMP-9 Antibody - Additional Information****Gene ID 17395****Other Names**

Matrix metalloproteinase-9, MMP-9, 3.4.24.35, 92 kDa gelatinase, 92 kDa type IV collagenase, Gelatinase B, GELB, Mmp9, Clg4b

**Calculated MW**

80535 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat<br><br>ELISA , 0.1-0.5 µg/ml, Mouse, -<br>Western blot, 0.1-0.5 µg/ml, Mouse, Rat<br>

**Subcellular Localization**

Secreted, extracellular space, extracellular matrix .

**Protein Name**

Matrix metalloproteinase-9

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of mouse MMP-9 (641-672aa KALLFSKGRVWRFDLKSQKVDPQSIRVDKEF), different from the related human sequence by thirteen amino acids, and from the related rat sequence by eight amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r°Constitution, 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.**

**Anti-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 (By similarity). Could play a role in bone osteoclastic resorption (PubMed:<a href="http://www.uniprot.org/citations/8132709" target="\_blank">8132709</a>). Cleaves KiSS1 at a Gly-β-Leu bond (By similarity). Cleaves NINJ1 to generate the Secreted ninjurin-1 form (PubMed:<a href="http://www.uniprot.org/citations/23142597" target="\_blank">23142597</a>, 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. Degrades fibronectin but not laminin or Pz- peptide (By similarity).

**Cellular Location**

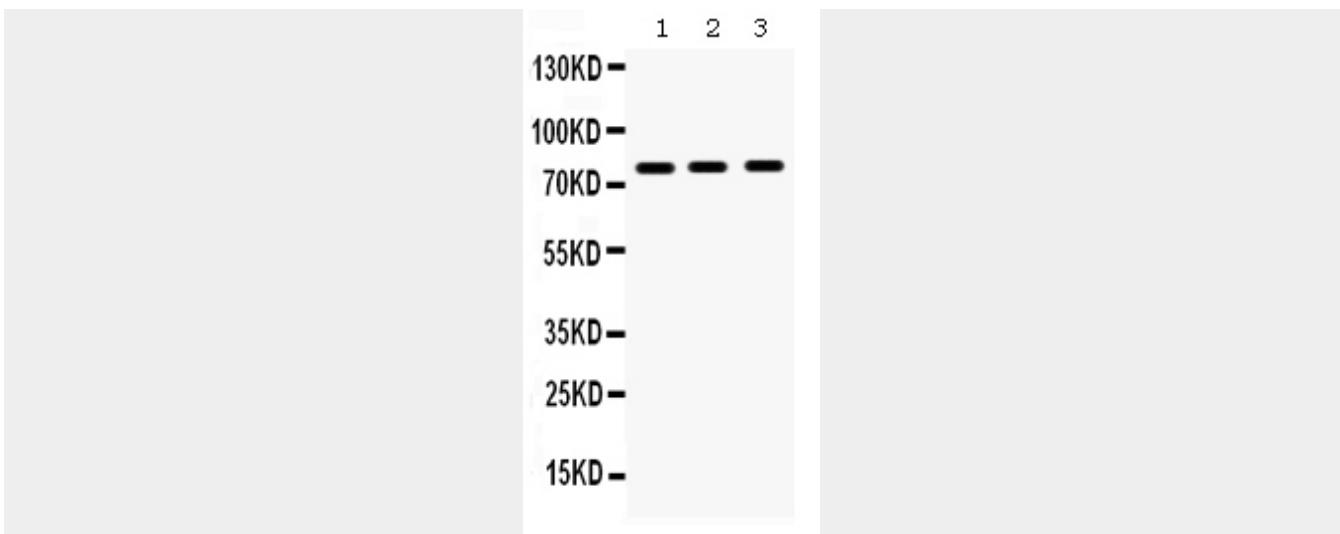
Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P14780}

**Anti-MMP-9 Antibody - Protocols**

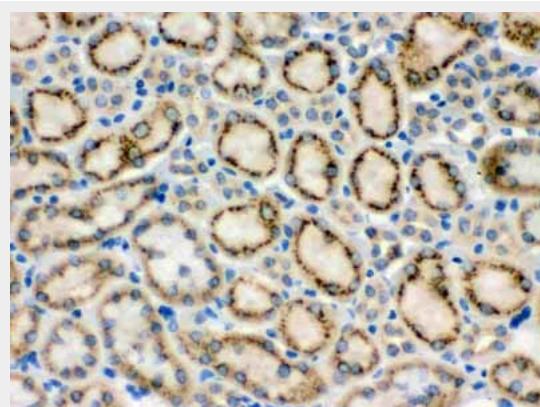
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

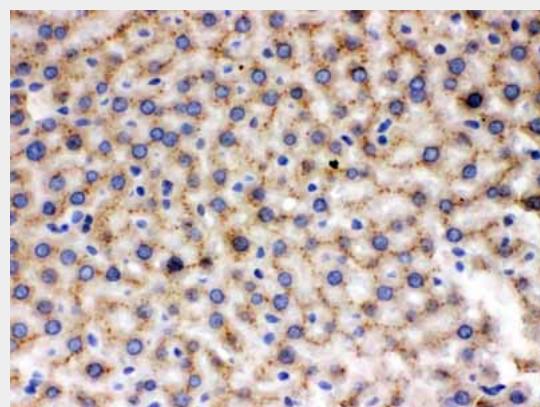
**Anti-MMP-9 Antibody - Images**



Anti- MMP-9 Picoband antibody, ABO12355, Western blotting  
All lanes: Anti MMP-9 (ABO12355) at 0.5ug/ml  
Lane 1: NRK Whole Cell Lysate at 40ug  
Lane 2: ANA-1 Whole Cell Lysate at 40ug  
Lane 3: HEPA Whole Cell Lysate at 40ug  
Predicted bind size: 78KD  
Observed bind size: 78KD



Anti- MMP-9 Picoband antibody, ABO12355, IHC(P)  
IHC(P): Mouse Kidney Tissue



Anti- MMP-9 Picoband antibody, ABO12355, IHC(P)  
IHC(P): Rat Liver Tissue

#### Anti-MMP-9 Antibody - Background

Matrix metallopeptidase 9 (MMP-9), also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB), is an enzyme that in humans is encoded by the MMP9 gene. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes. Most MMPs 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.