

## Anti-Matrix metalloproteinase-9 MMP9 Antibody Picoband® Biotin Conjugated

Catalog Number: PA1357-Biotin

### About MMP9

[Matrix metalloproteinase 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.

### Overview

Product Name	Anti-Matrix metalloproteinase-9 MMP9 Antibody Picoband® Biotin Conjugated
Reactive Species	Human
Application	WB, IHC, ELISA
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> N.
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P14780

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MMP-9, different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin

**Suggested Dilutions**

Western blot, Optimal dilutions should be determined by end users.  
Immunohistochemistry (Paraffin-embedded Section), Optimal dilutions should be determined by end users.  
ELISA, Optimal dilutions should be determined by end users.

## 67 Publications Citing This Product

1. PubMed ID: 32777528, Li CH,Liu M,Pan LH,Sun Y.ANP reduced Hedgehog signaling-mediated activation of matrix metalloproteinase-9 in gastric cancer cell line MGC-803.Gene.2020 Dec 15;762:145044.doi:10.1016/j.gene.2020.145044.Epub 2020 Aug 7.PMID:32777528.
2. PubMed ID: 18416455, Li Jk, Yu L, Shen Y, Zhou Ls, Wang Yc, Zhang Jh. World J Gastroenterol. 2008 Apr 21;14(15):2308-13. Inhibition Of Cxcr4 Activity With Amd3100 Decreases Invasion Of Human Colorectal Cancer Cells In Vitro.
3. PubMed ID: 25245263, Zhan X, Jia L, Niu Y, Qi H, Chen X, Zhang Q, Zhang J, Wang Y, Dong L, Wang C. Biomaterials. 2014 Dec;35(38):10046-57. Doi: 10.1016/J.Biomaterials.2014.09.007. Epub 2014 Sep 22. Targeted Depletion Of Tumour-Associated Macrophages By An Alendronate-...

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