

Anti-Matrix metalloproteinase-9 MMP9 Antibody Picoband®

Catalog Number: PA1357

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

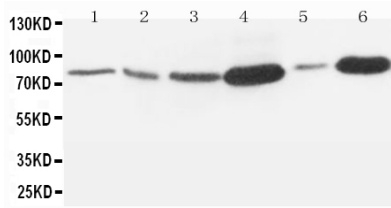
Product Name	Anti-Matrix metalloproteinase-9 MMP9 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-Matrix metalloproteinase-9 MMP9 Antibody catalog # PA1357. Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
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.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Rat

Anti-Matrix metalloproteinase-9 MMP9 Antibody Picoband® (PA1357) Images



Anti-MMP-9 antibody, PA1357, Western blotting Lane 1: Rat Embryo Tissue Lysate Lane 2: MM453 Cell Lysate Lane 3: HELA Cell Lysate Lane 4: SMMC Cell Lysate Lane 5: JURKAT Cell Lysate Lane 6: HT1080 Cell Lysate

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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