

Anti-MMP9 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB10008-Fluoro488

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-MMP9 Antibody Picoband® Fluoro488 Conjugated
Reactive Species	Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P50282

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of rat MMP-9, different from the related human sequence by nineteen amino acids, and from the related mouse sequence by nine 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	Fluoro488 Excitation Wavelength: 488 nm

	Emission Wavelength: 515-545 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

44 Publications Citing This Product

1. PubMed ID: -, Kefeng Zhai, Hong Duan, Wei Wang, Siyu Zhao, Ghulam Jilany Khan, Mengting Wang, Yuhan Zhang, Kiran Thakur, Xuemei Fang, Chao Wu, Jianbo Xiao, Zhaojun Wei, Ginsenoside Rg1 ameliorates blood-brain barrier disruption and traumatic brain injury via attenuating macrophages derived exosomes miR-21 release, Acta Pharmaceutica Sinica B, 2021, ISSN 2211 3835, <https://doi.org/10.1016/j.apsb.2021.03.032>.

2. PubMed ID: -, Integrated Transcriptomic and Proteomic Analyses of the Interaction Between Chicken Synovial Fibroblasts and Mycoplasma synoviae. X. Jian, Xiao Chunhong, C. Hongyan, Lu Huijun, Yu Haizhong, Y. Jianfen

3. PubMed ID: 32633388, Zhao HM, Jin L, Liu Y, Hong X. Changes in expressions of miR-22-3p and MMP-9 in rats with thoracic aortic aneurysm and their significance. Eur Rev Med Pharmacol Sci. 2020 Jun;24(12):6949-6954. doi:10.26355/eurrev_202006_21686. PMID:32633388.

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