

Anti-MMP3 Antibody Picoband™

Catalog Number: PB9267

About MMP3

Stromelysin-1, also known as matrix metalloproteinase-3 (MMP-3), is an enzyme that in humans is encoded by the MMP3 gene. It is mapped to 11q22.2. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix and during tissue remodeling in normal physiological processes, such as embryonic development and reproduction, as well as in disease processes, such as arthritis, and tumour metastasis. The MMP-3 enzyme degrades collagen types II, III, IV, IX, and X, proteoglycans, fibronectin, laminin, and elastin. In addition, MMP-3 can also activate other MMPs such as MMP-1, MMP-7, and MMP-9, rendering MMP-3 crucial in connective tissue remodeling. The enzyme is thought to be involved in wound repair, progression of atherosclerosis, and tumor initiation.

Overview

Product Name	Anti-MMP3 Antibody Picoband™
Reactive Species	Human
Description	Boster Bio Anti-MMP3 Antibody Picoband™ catalog # PB9267. Tested in WB applications. This antibody reacts with Human.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
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	P08254

Technical Details

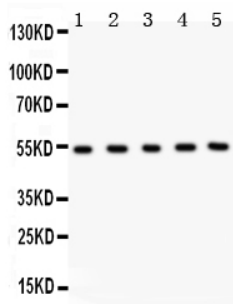
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminal of human MMP3, different from the related mouse sequence by seven amino acids, and from the related mouse sequence by ten amino acids.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced 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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human</p>

Anti-MMP3 Antibody Picoband™ (PB9267) Images



Anti-MMP3 Picoband antibody, PB9267, Western blotting
All lanes: Anti MMP3 (PB9267) at 0.5ug/ml
WB: Recombinant Human MMP3 Protein 0.5ng
Predicted band size: 36KD
Observed band size: 36KD



Anti-MMP3 Picoband antibody, PB9267, Western blotting
All lanes: Anti MMP3 (PB9267) at 0.5ug/ml
Lane 1: Human Placenta Tissue Lysate at 50ug
Lane 2: U2OS Whole Cell Lysate at 40ug
Lane 3: HELA Whole Cell Lysate at 40ug
Lane 4: PANC Whole Cell Lysate at 40ug
Lane 5: COLO320 Whole Cell Lysate at 40ug
Predicted band size: 54KD
Observed band size: 54KD

11 Publications Citing This Product

1. PubMed ID: 23555779, Vitiligo: A Possible Model of Degenerative Diseases
2. PubMed ID: 15953993, Zhu L, Wei W, Zheng Yq, Jia Xy. Inflamm Res. 2005 May;54(5):211-20. Effects And Mechanisms Of Total Glucosides Of Paeony On Joint Damage In Rat Collagen-Induced Arthritis.
3. PubMed ID: 25517994, Xu Y, Zhang Ja, Xu Y, Guo Sl, Wang S, Wu D, Wang Y, Luo D, Zhou Br. Stem Cells Dev. 2015 May 1;24(9):1096-111. Doi: 10.1089/Scd.2014.0321. Epub 2015 Jan 21. Antiphotaging Effect Of Conditioned Medium Of Dedifferentiated Adipocytes On Skin In Vivo...

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