BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Matrix metalloproteinase-14 MMP14 Antibody Picoband®

Catalog Number: PA2147

About MMP14

Matrix metalloproteinase-14, also called MT-MMP 1, is an enzyme that in humans is encoded by the MMP14 gene. The protein encoded by this gene is a member of the membrane-type MMP subfamily. This gene is mapped to 14q11.2. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. This gene may be involved in actin cytoskeleton reorganization by cleaving PTK7. It acts as a positive regulator of cell growth and migration via activation of MMP15.

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Overview

Product Name	Anti-Matrix metalloproteinase-14 MMP14 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Matrix metalloproteinase-14 MMP14 Antibody catalog # PA2147. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *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	P50281

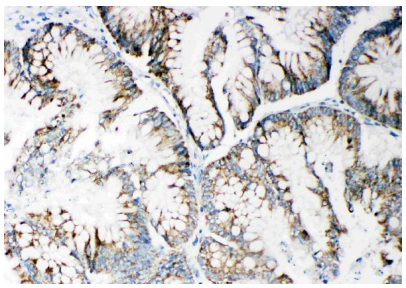
Technical Details

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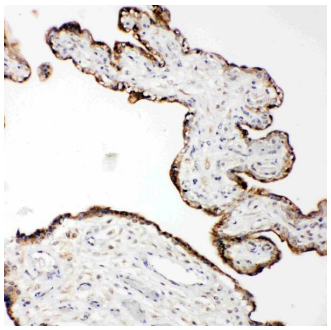
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human MMP14, different from the related mouse and rat sequences by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

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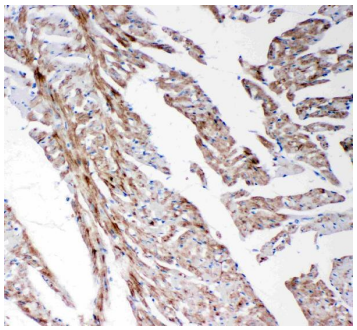
Anti-Matrix metalloproteinase-14 MMP14 Antibody Picoband® (PA2147) Images



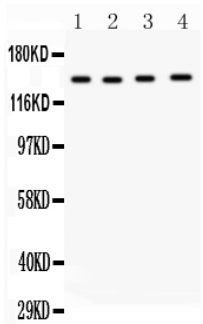
Anti-MMP14 antibody, PA2147, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-MMP14 antibody, PA2147, IHC(P)IHC(P): Human Placenta Tissue



Anti-MMP14 antibody, PA2147, IHC(P)IHC(P): Rat Cardiac Muscle Tissue



Anti-MMP14 antibody, PA2147, Western blottingAll lanes: Anti MMP14 (PA2147) at 0.5ug/mlLane 1: Rat Spleen Tissue Lysate at 50ugLane 2: Human Placenta Tissue Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: A549 Whole Cell Lysate at 40ugPredicted bind size: 66KDObserved bind size: 150KD

10 Publications Citing This Product

1. PubMed ID: 23795739, Jiang S, Jin F, Li D, Zhang X, Yang Y, Yang D, Li K, Yang Y, Ma S. High Alt Med Biol. 2013 Jun;14(2):175-80. Doi: 10.1089/Ham.2012.1083. Intermittent Hypobaric Hypoxia Promotes Atherosclerotic Plaque Instability In Apoe-Deficient Mice.

2. PubMed ID: 23058919, Jin F, Jiang S, Yang D, Zhang X, Yang Y, Zhang Y, Li K, Yang Y, Ma S. Biochem Biophys Res Commun. 2012 Nov 9;428(1):86-92. Doi: 10.1016/J.Bbrc.2012.10.011. Epub 2012 Oct 8. Acipimox Attenuates Atherosclerosis And Enhances Plaque Stability In Apoe-...

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3. PubMed ID: 24573354, Xiao H, Li H, Yu G, Xiao W, Hu J, Tang K, Zeng J, He W, Zeng G, Ye Z, Xu H. Oncol Rep. 2014 Apr;31(4):1832-8. Doi: 10.3892/Or.2014.3048. Epub 2014 Feb 24. Microrna-10B Promotes Migration And Invasion Through Klf4 And Hoxd10 In Human Bladder Cancer.

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