

## Anti-72 kDa type IV collagenase MMP2 Antibody

Catalog Number: PA1122-2

### About MMP2

Matrix metalloproteinase-2 (MMP2) is a Type IV collagenase, 72-kD, which is also known as gelatinase and is a member of a group of secreted zinc metalloproteases. The MMP2 gene is 17 kb long with 13 exons varying in size from 110 to 901 bp and 12 introns ranging from 175 to 4,350 bp, located within a region of human chromosome 16q13. In addition, the extra exons encode the amino acids of the fibronectin-like domain which has so far been found in only the 72- and 92-kDa type IV collagenase. MMP2, which has a critical role in the binding of progelatinase A and TIMP4 via the C-terminal hemopexin-like domain (C domain), is functionally associated on the surface of angiogenic blood vessels. NOT only is a likely effector of endometrial menstrual breakdown, MMP2 is also effector and regulator of the inflammatory response. Moreover, MMP2 could be helpful in diagnosing Takayasu arteritis.

### Overview

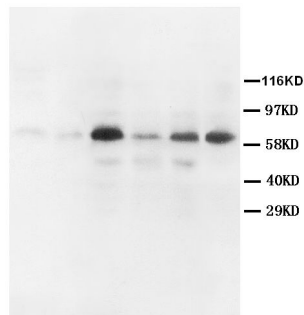
Product Name	Anti-72 kDa type IV collagenase MMP2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-72 kDa type IV collagenase MMP2 Antibody catalog # PA1122-2. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	FITC
Application	IHC, WB
Clonality	Monoclonal BAM-10
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .
Storage Instructions	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
Host	Hamster
Uniprot ID	P08253

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human MMP-2, different from the related rat and mouse sequences by two amino acids.
Predicted Reactive Species	Hamster
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) and IHC(F).
Cross Reactivity	No cross reactivity with other proteins

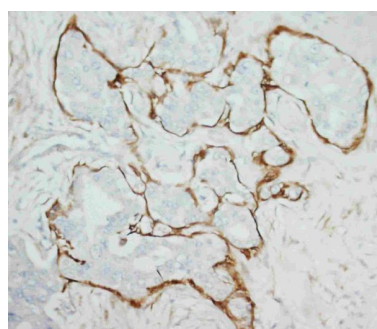
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen Affinity Purified
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range 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>Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat</p> <p>Immunohistochemistry (Frozen Section), 0.5-1ug/ml, Mouse, Rat , -</p> <p>Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse</p>

## Anti-72 kDa type IV collagenase MMP2 Antibody (PA1122-2) Images



Anti-MMP-2 antibody, PA1122-2, Western blotting

Lane 1: Rat Liver Tissue Lysate  
Lane 2: Rat Spleen Tissue Lysate  
Lane 3: MCF-7 Cell Lysate  
Lane 4: MM453 Cell Lysate  
Lane 5: MM231 Cell Lysate  
Lane 6: SW620 Cell Lysate



Anti-MMP-2 antibody, PA1122-2, IHC(P)

IHC(P): Human Mammary Cancer Tissue

## 25 Publications Citing This Product

1. 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.
2. PubMed ID: 21392403, Tao L, Suhua C, Juanjuan C, Zongzhi Y, Juan X, Dandan Z. Virol J. 2011 Mar 11;8:114. Doi: 10.1186/1743-422X-8-114. In Vitro Study On Human Cytomegalovirus Affecting Early Pregnancy Villous Evt'S Invasion Function.
3. PubMed ID: 24979385, Sun Fl, Wang W, Cheng H, Wang Y, Li L, Xue Jl, Wang Xf, Ai Hx, Zhang L, Xu Jd, Wang Xm, Ji Xm. Plos One. 2014 Jun 30;9(6):E101194. Doi: 10.1371/Journal.Pone.0101194. Ecollection 2014. Morroniside Improves Microvascular Functional Integrity Of The ...

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