# Product datasheet Anti-MMP1 Antibody Catalog Number: PB0764



Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

Basic Information	
Product Name	Anti-MMP1 Antibody
Gene Name	MMP1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
<b>Species Reactivity</b>	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human MMP1
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	54 kDa
Dilution Ratios	Western blot (WB):1:500-2000

#### **Storage**

12 months from date of receipt, -20°C as supplied.

#### **Background Information**

Matrix metalloproteinase-1 (MMP-1), also known as interstitial collagenase and fibroblast collagenase, is an enzyme that in humans is encoded by the MMP1 gene. MMP-1 was the first vertebrate collagenase both purified to homogeneity as a protein, and cloned as a cDNA. 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. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. This gene encodes a secreted enzyme which breaks down the interstitial collagens, types I, II, and III. It is part of a cluster of MMP genes which localize to chromosome 11q22.3. Alternative splicing results in multiple transcript variants.



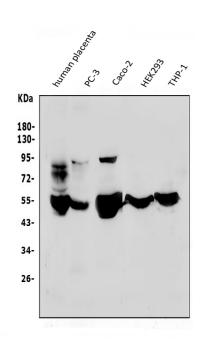
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## Reference

Anti-MMP1 Antibody被引用在6文献中。

### **Selected Validation Data**



Western blot analysis of MMP1 using anti-MMP1 antibody (PB0764). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates,

Lane 2: human PC-3 whole cell lysates,

Lane 3: human CACO-2 whole cell lysates,

Lane 4: human HEK293 whole cell lysates,

Lane 5: human THP-1 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-MMP1 antigen affinity purified polyclonal antibody (PB0764) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for MMP1 at approximately 54 kDa. The expected band size for MMP1 is at 54 kDa.