

Anti-Matrix metalloproteinase-9 MMP9 Antibody

Catalog Number: A00139

About MMP9

The matrix metalloproteinase (MMP) family are a family of proteins that 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 (1). MMP9 degrades type IV and V collagens (2) and studies suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow (3) and plays a role in tumor-associated tissue remodeling (4).

Overview

Product Name	Anti-Matrix metalloproteinase-9 MMP9 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Matrix metalloproteinase-9 MMP9 Antibody (Catalog # A00139). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	MMP9 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P14780

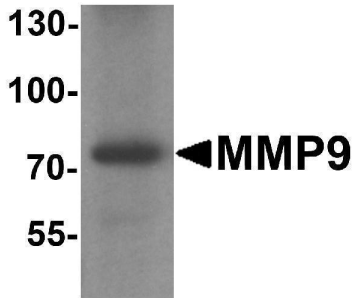
Technical Details

Immunogen	MMP9 antibody was raised against a 16 amino acid peptide near the center of human MMP9. The immunogen is located within amino acids 260 - 310 of MMP9.
Predicted Reactive Species	Bovine, Rabbit
Cross Reactivity	MMP9 antibody is human, mouse and rat reactive. At least three isoforms of MMP9 are known to exist; this antibody only recognizes the two longest isoforms.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	MMP9 Antibody is affinity chromatography purified via peptide column.

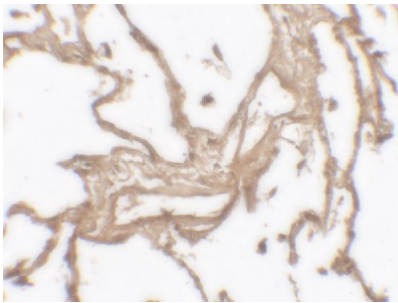
Suggested Dilutions

MMP9 antibody can be used for detection of MMP9 by Western blot at 1 - 2 ug/ml.
Antibody validated: Western Blot in mouse samples; Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

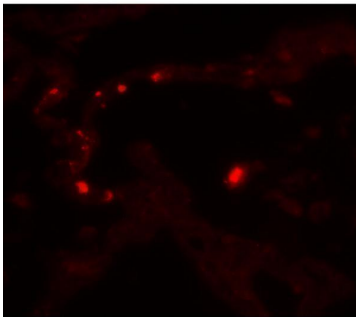
Anti-Matrix metalloproteinase-9 MMP9 Antibody (A00139) Images



Western blot analysis of MMP9 in mouse lung tissue lysate with MMP9 antibody at 1 ug/ml.



Immunohistochemistry of MMP9 in human lung tissue with MMP9 antibody at 2.5 ug/mL.



Immunofluorescence of MMP9 in human lung tissue with MMP9 antibody at 20 ug/mL.

5 Publications Citing This Product

1. PubMed ID: 32974191, Gao X, Qiao X, Xing X, Huang J, Qian J, Wang Y, Zhang Y, Zhang X, Li M, Cui J, Yang Y. Matrix Stiffness-Upregulated MicroRNA-17-5p Attenuates the Intervention Effects of Metformin on HCC Invasion and Metastasis by Targeting the PTEN/PI3K/Akt Pathway. *Front Oncol.* 2020 Aug 19;10:1563. doi:10.3389/fonc.2020.01563. PMID:32974191; PMCID:PMC7466473.
2. PubMed ID: 32974191, Gao X, Qiao X, Xing X, Huang J, Qian J, Wang Y, Zhang Y, Zhang X, Li M, Cui J, Yang Y. Matrix Stiffness-Upregulated MicroRNA-17-5p Attenuates the Intervention Effects of Metformin on HCC Invasion and Metastasis by Targeting the PTEN/PI3K/Akt Pathway. *Front Oncol.* 2020
3. PubMed ID: 32777528, Li CH, Liu M, Pan LH, Sun Y. ANP reduced Hedgehog signaling-mediated activation of matrix metalloproteinase-9 in gastric cancer cell line MGC-803. *Gene.* 2020 Dec 15;762:145044. doi:10.1016/j.gene.2020.145044. Epub 2020 Aug 7. PMID:32777528.

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