

Anti-MMP9 Rabbit Monoclonal Antibody

Catalog Number: M00139

About MMP9

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDPK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-MMP9 Rabbit Monoclonal Antibody
Reactive Species	Human, Rat
Description	Boster Bio Anti-MMP9 Rabbit Monoclonal Antibody catalog # M00139. Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Rat.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Monoclonal BCD-13
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P14780

Technical Details

Immunogen	A synthesized peptide derived from human MMP9
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

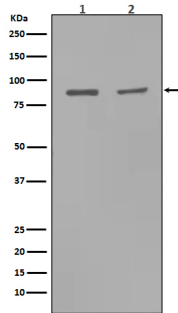
WB 1:500-1:2000

IHC 1:50-1:200

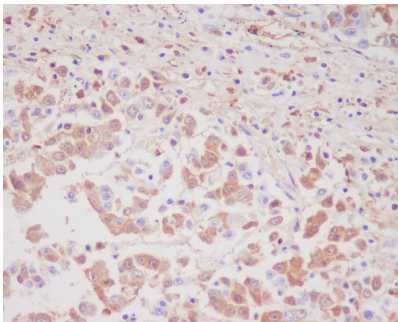
ICC/IF 1:50-1:200

FC 1:50

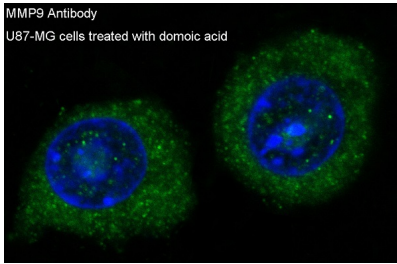
Anti-MMP9 Rabbit Monoclonal Antibody (M00139) Images



Western blot analysis of MMP9 expression in (1) Rat kidney tissue lysate; (2) Rat lung tissue lysate.



Immunohistochemical analysis of paraffin-embedded human colon cancer, using MMP9 Antibody.



Immunofluorescent analysis of U87-MG cells, using MMP9 Antibody.

31 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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