

Anti-MMP2 / Collagenase Type IV A (Tumor Metastasis Marker) Monoclonal Antibody

Catalog Number: M00286

About MMP2

This monoclonal antibody recognizes a protein of 72kDa, which is identified as MMP2. The matrix metalloproteinases (MMP) are a family of peptidase enzymes responsible for the degradation of extracellular matrix components, including collagen, gelatin, Fibronectin, Laminin and proteoglycan. Transcription of MMP genes is differentially activated by phorbol ester, lipopolysaccharide (LPS) or staphylococcal enterotoxin B (SEB). MMP catalysis requires both calcium and zinc. MMP-2 (also designated type IV collagenase) cleaves collagen types IV,V, VII and X and gelatin type I. Activation of MMP-2 secretion requires the Ras signaling pathway.

Overview

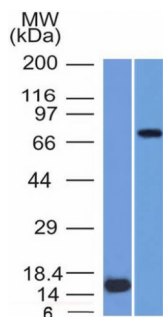
Product Name	Anti-MMP2 / Collagenase Type IV A (Tumor Metastasis Marker) Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-MMP2 / Collagenase Type IV A (Tumor Metastasis Marker) Monoclonal Antibody (Catalog # M00286). Tested in WB applications. This antibody reacts with Human.
Conjugate	Biotin
Application	WB
Clonality	Monoclonal Clone: MMP2/1501
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P08253

Technical Details

Immunogen	Recombinant human MMP2 protein fragment (aa444-575) (exact sequence is proprietary)
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Isotype	IgG1, kappa
Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml

Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
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>Western Blot (1-2ug/ml) Optimal dilution for a specific application should be determined.</p>

Anti-MMP2 / Collagenase Type IV A (Tumor Metastasis Marker) Monoclonal Antibody (M00286) Images



Western Blot of (1) Recombinant MMP2 protein and (2) U87 cell lysate using Anti-MMP2 Monoclonal Antibody (MMP2/1501).

18 Publications Citing This Product

1. PubMed ID: 10.2147/OTT.S211535, Downregulation of miR-21 inhibits the malignant phenotype of pancreatic cancer cells by targeting VHL
2. PubMed ID: 10.12659/MSM.909472, 5-Hydroxy-4-Nitro-7-Propionyloxy-Genistein Inhibited Invasion and Metastasis via Inactivating Wnt/beta-Catenin Signal Pathway in Human Endometrial Carcinoma Ji Endometrial Cells
3. PubMed ID: 10.1016/j.biopha.2019.108836, Hypoxia-induced microRNA-141 regulates trophoblast apoptosis, invasion, and vascularization by blocking CXCL12beta/CXCR2/4 signal transduction

Visit [bosterbio.com/anti-mmp2-collagenase-type-iv-a-tumor-metastasis-marker-antibody-m00286-boster.html](https://www.bosterbio.com/anti-mmp2-collagenase-type-iv-a-tumor-metastasis-marker-antibody-m00286-boster.html) to see all 18 publications.

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