bsm-54040R **[Primary Antibody]**

MMP9 Recombinant Rabbit mAb

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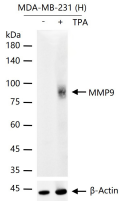
DATASHEET

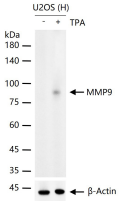
Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 7D6
GeneID: 4318
SWISS: P14780
Target: MMP9
Immunogen: A synthesized peptide derived from human MMP9: 100-165/707.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: bs-7059P is one synthetic peptide derived from human MMP-9. 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. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling. [provided by RefSeq, Jul 2008].

Applications: **WB** (1:1000-5000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Reactivity: Human, Mouse, Rat
Predicted MW.: 100 kDa
Subcellular Location: Extracellular matrix

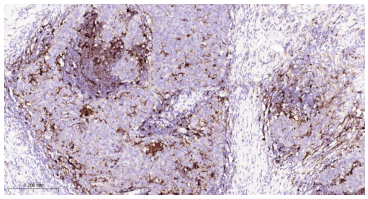
VALIDATION IMAGES



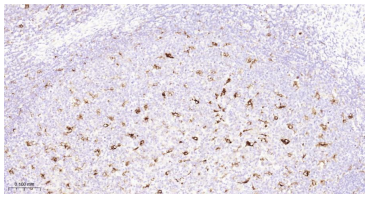
MDA-MB-231 (H) cells were treated with or without TPA (200nM,24h) for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with MMP9 monoclonal antibody, unconjugated (bsm-54040R) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



U2OS (H) cells were treated with or without TPA (200nM,48h) for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with MMP9 monoclonal antibody, unconjugated (bsm-54040R) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MMP9 Monoclonal Antibody, Unconjugated (bsm-54040R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MMP9 Monoclonal Antibody, Unconjugated(bsm-54040R) at 1:200 overnight at 4°C, followed by conjugation to the

SP Kit (Rabbit, SP-0023) and DAB (C-0010)
staining.

SELECTED CITATIONS

- **[IF=8.2]** Yiyan Xu. et al. Precision Drug Delivery for Multifunctional Treatment of Abdominal Aortic Aneurysm Using Bioactive Tea Polyphenol Nanoparticles. ACS APPL MATER INTER. 2025;XXXX(XXX):XXX-XXX WB,IHC ;Mouse. 40479730
- **[IF=5.988]** Wenjun He. et al. Molecular Mechanism of Naringenin Against High-Glucose-Induced Vascular Smooth Muscle Cells Proliferation and Migration Based on Network Pharmacology and Transcriptomic Analyses.. FRONT PHARMACOL. 2022 Jun;13:862709-862709 IHC,WB ;Mouse. 35754483
- **[IF=4.7]** Ding Lingli. et al. Ginsenoside compound-K attenuates OVX-induced osteoporosis via the suppression of RANKL-induced osteoclastogenesis and oxidative stress. NAT PRODUCT BIOPROSP. 2023 Dec;13(1):1-12 WB,IHC ;Mouse. 37940733
- **[IF=4.7]** Huihui Ma. et al. Alkannin Induces G2/M-Phase Arrest, Apoptosis, and Inhibition of Invasion by Targeting GSK3β in Esophageal Squamous Cell Carcinoma. DRUG DES DEV THER. 2024 Nov 24 WB ;Human. 39618426
- **[IF=2.1]** Fenqiang Qi. et al. Irisin suppresses PDGF-BB-induced proliferation of vascular smooth muscle cells in vitro by activating AMPK/mTOR-mediated autophagy. EUR J HISTOCHEM. 2024 Oct;68(4):4104 WB ;Rat. 39410813