

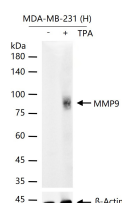
bsm-54040R**[Primary Antibody]****MMP9 Recombinant Rabbit mAb****BioSS**
ANTIBODIES

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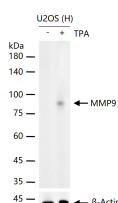
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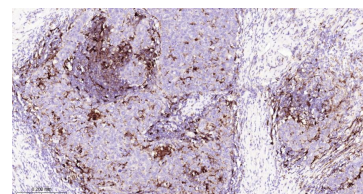
400-901-9800

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 (1:2000-20000)**IHC-P** (1:200-1000)**IHC-F** (1:200-1000)**IF** (1:200-1000)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 100 kDa**Observed MW.:** 85 kDa**Subcellular Location:** Extracellular matrix**VALIDATION IMAGES**

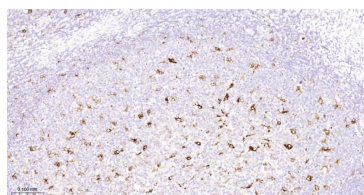
MDA-MB-231 (H) cells were treated with or without TPA (200nM, 24h) for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with MMP9 monoclonal antibody, unconjugated (bsm-54040R) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation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



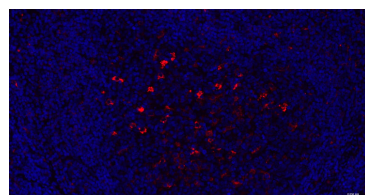
U2OS (H) cells were treated with or without TPA (200nM, 48h) for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with MMP9 monoclonal antibody, unconjugated (bsm-54040R) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at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



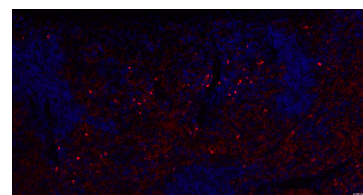
Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MMP9 Monoclonal Antibody, Unconjugated (bsm-54040R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010)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



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 Antibody, Unconjugated (bsm-54040R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit



Paraformaldehyde-fixed, paraffin embedded Mouse Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with MMP9 Antibody, Unconjugated (bsm-54040R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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

IgG antibody (Red, bs-0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.

IgG antibody (Red, bs-0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei.

— SELECTED CITATIONS —

- **[IF=10.7]** Jiannan Zhou. et al. Mapping Immune-Inflammatory Niches on Zirconia Bone Implants: Single-Cell Transcriptomic Profiling. Research. 2026 Mar;9 WB ;Rat. 41815528
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- **[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=5.7]** Li Yuan. et al. A novel role for decadienyl-L-carnitine in pulmonary vascular remodeling and the underlying interventional mechanism of osthole. CHIN MED-UK. 2026 Dec;21(1):87 WB ;Rat. 41840734
- **[IF=5.4]** Siyu Zhao. et al. Extracts and pimaradienoic acid from *Eleutherococcus trifolius* L. S. Y. Hu for the treatment of Rheumatoid Arthritis by modulating NF-κB signaling pathway. J ETHNOPHARMACOL. 2026 Jan;354:120507 IHC ;Rat. 40912486