bsm-51472M **[Primary Antibody]**

MMP2 Mouse mAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Mouse
Isotype: IgG2b,k
Clonality: Monoclonal
CloneNo.: M2F1
GeneID: 4313
SWISS: P08253
Target: MMP2
Purification: affinity purified by Protein G
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: 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. This gene encodes an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

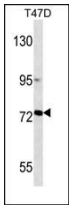
Applications: **WB** (1:500-1000)
IHC-P (1:50)
IHC-F (1:400-800)
IF (1:10-50)
ICC/IF (1:50)

Reactivity: Human

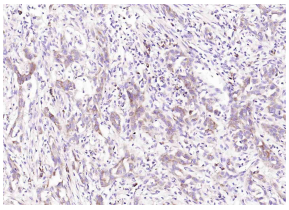
Predicted MW.: 72 kDa

Subcellular Location: Secreted ,Extracellular matrix ,Cell membrane ,Cytoplasm ,Nucleus

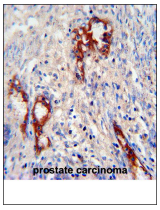
VALIDATION IMAGES



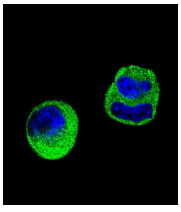
Sample: Lane 1: T47D cell lysates Primary: Anti-MMP2 (bsm-51472M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 72 kD Observed band size: 72 kD



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (MMP2) Monoclonal Antibody, Unconjugated (bsm-51472M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human prostate carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MMP2) Monoclonal Antibody, Unconjugated (bsm-51472M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.



MCF7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Antibody incubation with (MMP2) monoclonal Antibody, Unconjugated (bsm-51472M) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Mouse IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.

SELECTED CITATIONS

- **[IF=3.9]** Cao Dongdong. et al. miR-769-3p inhibits cellular proliferation of KSHV-infected SH-SY5Y cells through targeting mTOR. J CANCER. 2024 Apr;15(11):3338-3349 WB ;Human. 10.7150/jca.93595
- **[IF=4.4]** Peng Huang. et al. Mechanistic Insights Into GDFMD-Mediated Inhibition of Liver Fibrosis via miRNA-29b-3p Upregulation in Wilson’ s Disease. MEDIAT INFLAMM. 2025 Apr;2025(1):2776808 WB ;Mouse. 40322065