bs-4605R **[Primary Antibody]**

MMP2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4313 **SWISS:** P08253

Target: MMP2

Immunogen: KLH conjugated synthetic peptide derived from human MMP-2 PEX: 561-660/660.

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: 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].

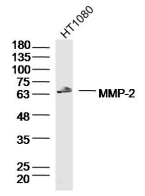
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)
ICC/IF (1:100)

Reactivity: Human, Mouse, Rat, Rabbit (predicted: Pig, Sheep, Cow, Horse)

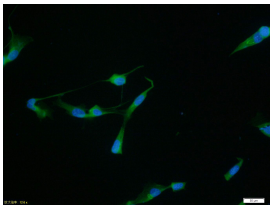
Predicted MW.: 24/62 kDa

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

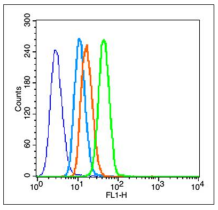
VALIDATION IMAGES



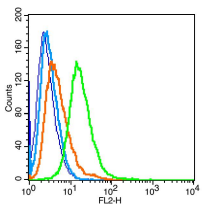
Sample: HT1080 Cell (Human) Lysate at 40 ug
Primary: Anti-MMP2 (bs-4605R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 24/62 kD
Observed band size: 64 kD



Tissue/cell: U-87MG cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (MMP2) polyclonal Antibody, Unconjugated (bs-4605R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control (blue line): Hela (fixed with 80% methanol (5 min at -20°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti- MMP2 antibody (bs-4605R),Dilution: 1μg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC, Dilution: 1μg /test.



Blank control:U-87MG (fixed with 2% paraformaldehyde (10 min), then permeabilized with 90% ice-cold methanol for 30 min on ice).

Primary Antibody: Rabbit Anti-MMP2 antibody(bs-4605R), Dilution: 5μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange),used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

SELECTED CITATIONS

- **[IF=8.579]** Chen X et al. Circular RNA circFBXW4 Suppresses Hepatic Fibrosis via Targeting the miR-18b-3p/FBXW7 Axis. Theranostics. 2020 Mar 26;10(11):4851-4870. WB ;mouse. 32308754
- **[IF=6.543]** Yang Lili. et al. Elucidating the Novel Mechanism of Ligustrazine in Preventing Postoperative Peritoneal Adhesion Formation. Oxid Med Cell Longev. 2022;2022:9226022 WB ;Rat,Human. 35308169
- **[IF=7.2]** Han A. Xuan. et al. Machine learning framework develops neutrophil extracellular traps model for clinical outcome and immunotherapy response in lung adenocarcinoma. APOPTOSIS. 2024 Mar;:1-19 IHC ;Mouse. 38519636
- **[IF=5.5]** Zhang et al. Cardiac Contractility Modulation Attenuate Myocardial Fibrosis by Inhibiting TGF-β1/Smad3 Signaling Pathway in a Rabbit Model of Chronic Heart Failure. (2016) Cell.Physiol.Biochem. 39:294-304 WB ;Rabbit. 27344462
- **[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