

bs-0575R**[Primary Antibody]****MMP13 Rabbit pAb****Bioss**
ANTIBODIES

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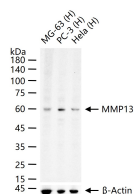
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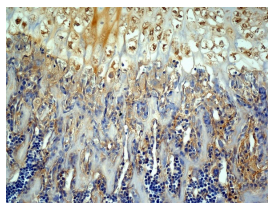
400-901-9800

— DATASHEET —

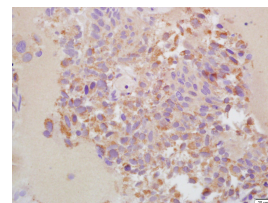
Host: Rabbit Clonality: Polyclonal GeneID: 4322 Target: MMP13 Immunogen: KLH conjugated synthetic peptide derived from human MMP13: 201-300/471. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: bs-0575P is one synthetic peptide derived from human MMP13. 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 protein encoded by this gene cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq, Jul 2008].	Isotype: IgG SWISS: P45452	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse, Rat (predicted: Rabbit) Predicted MW.: 52 kDa Subcellular Location: Secreted ,Extracellular matrix
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— VALIDATION IMAGES —

25 ug total protein per lane of various lysates (see on figure) probed with MMP13 polyclonal antibody, unconjugated (bs-0575R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Generously provided by Markus Linder from Medical University Vienna as part of the Bioss Discovery Program. Formalin-fixed, paraffin embedded, and decalcified in EDTA mouse bone labeled with Anti-MMP-13 Polyclonal Antibody, Unconjugated (bs-0575R) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Tissue/cell: human bladder carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-MMP-13 Polyclonal Antibody, Unconjugated (bs-0575R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining

— SELECTED CITATIONS —

- **[IF=10.684]** Chen Zhang. et al. The novel hyaluronic acid granular hydrogel attenuates osteoarthritis progression by inhibiting the TLR-2/NF-κB signaling pathway through suppressing cellular senescence. BIOENG TRANSL MED. 2022 Dec;;e10475 IHC ;Mouse. 10.1002/btm2.10475
- **[IF=8.8]** Jiajun Chen. et al. Integrating UHPLC-MS/MS quantitative analysis and exogenous purine supplementation to elucidate the antidepressant mechanism of Chaigui granules by regulating purine metabolism. J PHARM ANAL. 2023 Aug;:

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

WB ;Rat. 10.1016/j.jpha.2023.08.008

- **[IF=8.718]** Yang, Jiashu. et al. m6A-mediated upregulation of AC008 promotes osteoarthritis progression through the miR-328-3p-AQP1/ANKH axis. Exp Mol Med. 2021 Nov;;1-12 WB ;Human. 34737423
- **[IF=9]** Kei Takahata. et al. Concurrent Joint Contact in Anterior Cruciate Ligament Injury induces cartilage micro-injury and subchondral bone sclerosis, resulting in knee osteoarthritis. OSTEOARTHR CARTILAGE. 2025 Jun;; IHC ;Mouse. 40543563
- **[IF=6.832]** Lingan Huang. et al. Zinc finger protein 521 attenuates osteoarthritis via the histone deacetylases 4 in the nucleus. BIOENGINEERED. 2022;13(6):14489-14502 IHC ;Rat. 36694467