bs-10581R **[Primary Antibody]**

MMP13 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4322 **SWISS:** P45452

Target: MMP13

Immunogen: KLH conjugated synthetic peptide derived from human MMP13: 251-350/471.

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].

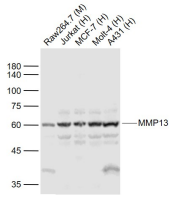
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Dog)

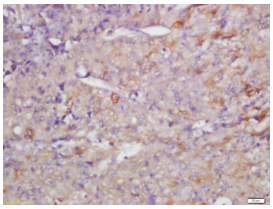
Predicted MW.: 52 kDa

Subcellular Location: Secreted ,Extracellular matrix

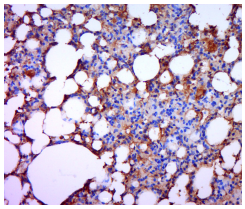
VALIDATION IMAGES



Sample: Lane 1: Raw264.7 (Mouse) Cell Lysate at 30 ug Lane 2: Jurkat (Human) Cell Lysate at 30 ug Lane 3: MCF-7 (Human) Cell Lysate at 30 ug Lane 4: Molt-4 (Human) Cell Lysate at 30 ug Lane 5: A431 (Human) Cell Lysate at 30 ug Primary: Anti-MMP13 (bs-10581RR) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60 kD Observed band size: 60 kD



Tissue/cell: human gastric 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-10581R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (rat lung tissue); 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 (MMP13) Polyclonal Antibody, Unconjugated (bs-10581R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=7.9]** Nan Wang. et al. The Sanbi Decoction alleviates intervertebral disc degeneration in rats through intestinal flora and serum metabolic homeostasis modulation. PHYTOMEDICINE. 2024 May;127:155480 IHC,WB ;Rat. 38484462
- **[IF=6.6]** Hao Tang. et al. The IRF1/GBP5 axis promotes osteoarthritis progression by activating chondrocyte pyroptosis. J ORTHOP TRANSL. 2024 Jan;44:47 WB ;Mouse. 10.1016/j.jot.2023.11.005

- **[IF=5.026]** Ting-ting Yu. et al. Deletion at an 1q24 locus reveals a critical role of long noncoding RNA DNM3OS in skeletal development. Cell Biosci. 2021 Dec;11(1):1-15 IF ;Mouse. 33653390
- **[IF=4.889]** Guoqing Li. et al. Teriparatide ameliorates articular cartilage degradation and aberrant subchondral bone remodeling in DMM mice. J ORTHOP TRANSL. 2023 Jan;38:241 IHC ;Mouse. 36514714
- **[IF=3.923]** Gong X et al. Synergistically regulated spontaneous calcium signaling is attributed to cartilaginous extracellular matrix metabolism. (2018) J. Cell. Physiol. Oct 28. WB ;Pig. 30370672