bs-10250R **[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: 65-150/471.

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].

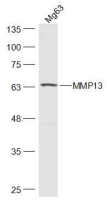
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

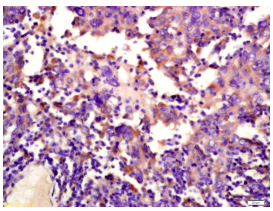
Predicted MW.: 52 kDa

Subcellular Location: Secreted ,Extracellular matrix

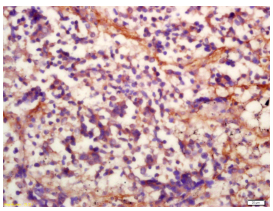
VALIDATION IMAGES



Sample: Mg63(Human) Cell Lysate at 30 ug Primary: Anti-MMP13 (bs-10250R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 63 kD



Tissue/cell: human breast 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-MMP13 Polyclonal Antibody, Unconjugated(bs-10250R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human lung 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-MMP13 Polyclonal Antibody, Unconjugated(bs-10250R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=6.7]** Zhang Shengqing. et al. Mitochondrial-targeting Mn3O4/UIO-TPP nanozyme scavenge ROS to restore mitochondrial function for osteoarthritis therapy. REGEN BIOMATER. 2023 Sep;: IF ;Rat. 10.1093/rb/rbad078
- **[IF=4.8]** Jin-Jin Zhang. et al. Eriocitrin ameliorates hepatic fibrosis and inflammation: The involvement of PPARα-mediated NLRP1/NLRC4 inflammasome signaling cascades. J ETHNOPHARMACOL. 2024 Nov;:119119 WB ;Rat,Mouse.

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- **[IF=4.2]** Hai-Ming Sun. et al. Bruceine A attenuates fibrogenesis and inflammation through NR2F2-regulated HMGB1 inflammatory signaling cascades in hepatic fibrosis. EUR J PHARMACOL. 2024 Nov;:177164 WB ;Rat. 39615868
- **[IF=3.9]** Hong-Zhou Li. et al. Tanshinone IIA attenuates osteoarthritis via inhibiting aberrant angiogenesis in subchondral bone. ARCH BIOCHEM BIOPHYS. 2024 Mar;753:109904 IF ;Mouse. 38253247
- **[IF=2.362]** Zhao R et al. Interleukin-1 receptor antagonist protein (IL-1Ra) and miR-140 overexpression via pNNS-conjugated chitosan-mediated gene transfer enhances the repair of full-thickness cartilage defects in a rabbit model. Bone Joint Res. 2019 Apr 2;8(3):165-178. WB ;Human. 30997042