bs-2242R **[Primary Antibody]**

BMP7 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 655 **SWISS:** P18075

Target: BMP7

Immunogen: KLH conjugated synthetic peptide derived from human BMP7: 293-350/431.

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: The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity. [provided by RefSeq].

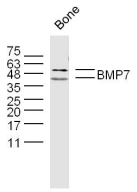
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

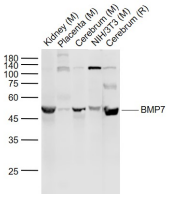
Predicted MW.: 15.7/47 kDa

Subcellular Location: Secreted

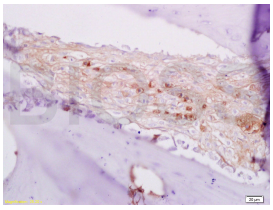
VALIDATION IMAGES



Sample: Bone (Mouse) Lysate at 40 ug Primary: Anti-BMP7 (bs-2242R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 15.7/47 kD Observed band size: 47,50kD



Sample: Lane 1: Kidney (Mouse) Lysate at 40 ug Lane 2: Placenta (Mouse) Lysate at 40 ug Lane 3: Cerebrum (Mouse) Lysate at 40 ug Lane 4: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 5: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-BMP7 (bs-2242R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 47 kD



Tissue/cell: rabbit alveolar bone; 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-BMP7 Polyclonal Antibody, Unconjugated(bs-2242R) 1:600, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=7.4]** Chen Kai. et al. BMP7 alleviates trigeminal neuralgia by reducing oligodendrocyte apoptosis and demyelination. J HEADACHE PAIN. 2023 Dec;24(1):1-15 WB,IF ;Rat. 37875834
- **[IF=5.959]** Wang Y et al. SPARCL1 promotes C2C12 cell differentiation via BMP7-mediated BMP/TGF-β cell signaling pathway. Cell Death Dis. 2019 Nov 7;10(11):852. WB ;Mouse. 31699966
- **[IF=5.31]** Shuxin Liu. et al. Overexpression of bone morphogenetic protein 7 reduces oligodendrocytes loss and promotes functional recovery after spinal cord injury. 2021 Aug 13 WB ;Rat. 34390115

- **[IF=3.54]** Mai et al. Dyssynchronous pacing triggers endothelial-mesenchymal transition through heterogeneity of mechanical stretch in a canine model. (2014) Circ.. 79:201-9 WB ;Canine. 25373595
- **[IF=3.309]** Gulistan Sanem Saribas. et al. Ellagic acid increases implantation rates with its antifibrotic effect in the rat model of intrauterine adhesion. PATHOL RES PRACT. 2023 Jun;246:154499 IHC ;Rat. 37163881