

bs-1012R**[Primary Antibody]****BMP2 Rabbit pAb****Bioss**
ANTIBODIES

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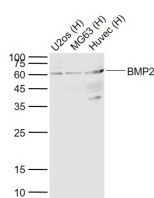
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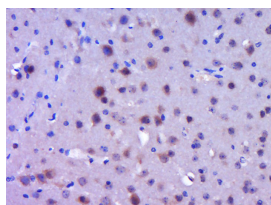
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DATASHEET

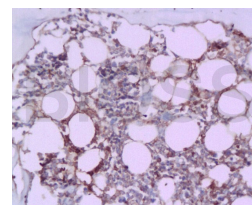
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		
GeneID: 650	SWISS: P12643	
Target: BMP2		
Immunogen: KLH conjugated synthetic peptide derived from human BMP2: 283-365/396.		Reactivity: Human, Mouse, Rat (predicted: Rabbit, Sheep, Cow, Chicken, Dog, Horse)
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 13/44 kDa
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.		Subcellular Location: Secreted
Background: BMP2 belongs to the transforming growth factor-beta (TGFB) superfamily of secreted growth factors. It is a disulfide-linked homodimer and induces bone and cartilage formation. In addition to its osteogenic activity, BMP2 plays an important role in cardiac morphogenesis and is expressed in a variety of tissues including lung, spleen, brain, liver, prostate ovary and small intestine. The functional form of BMP2 is a 26 kDa protein composed of two identical 114 amino acid polypeptide chains linked by a single disulfide bond. BMPs control fundamental events in early embryonic development, organogenesis and adult tissue homeostasis.		

VALIDATION IMAGES

Sample: Lane 1: U2os (Human) Cell Lysate at 30 ug
Lane 2: MG63 (Human) Cell Lysate at 30 ug
Lane 3: Huvec (Human) Cell Lysate at 30 ug
Primary: Anti-BMP2 (bs-1012R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD
Observed band size: 60 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (BMP2) Polyclonal Antibody, Unconjugated (bs-1012R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat tibia tissue; 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-BMP2 Polyclonal Antibody, Unconjugated(bs-1012R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=45.5]** Yash Chhabra. et al. Sex-dependent effects in the aged melanoma tumor microenvironment influence invasion and resistance to targeted therapy. CELL. 2024 Oct;187:6016-6034.e25 WB,IHC ;Mouse,Human. 39243764
- **[IF=18.5]** Yizhou Zhu. et al. Photocurrent-Directed Immunoregulation Accelerates Osseointegration through Activating Calcium Influx in Macrophages. ADV FUNCT MATER. 2024 Oct;2406095 IHC ;Rat. 10.1002/adfm.202406095
- **[IF=15.153]** Haojun Liang. et al. A Bone-Penetrating Precise Controllable Drug Release System Enables Localized

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

Treatment of Osteoporotic Fracture Prevention via Modulating Osteoblast-Osteoclast Communication. *SMALL*. 2023 Mar;;2207195 IHC ;Rat. 36971278

- **[IF=11.322]** Chengzhong Xu. et al. Microenvironment responsive hypoxia-mimetic DFO composite hydrogel for on-demand neovascularization to promote tendon-to-bone healing. *COMPOS PART B-ENG*. 2023 Apr;;110726 IF ;Human,Rat,Mouse. 10.1016/j.compositesb.2023.110726
- **[IF=10.652]** Zhiwei Jianga et al. An effective light activated TiO₂ nanodot platform for gene delivery within cell sheets to enhance osseointegration. *WB ;Human*. 10.1016/j.cej.2020.126170