

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

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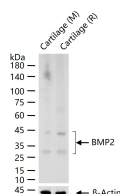
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		Reactivity: Mouse, Rat (predicted: Human, Rabbit, Sheep, Cow, Chicken, Dog, Horse)
GeneID: 650	SWISS: P12643	Predicted MW.: 13/44 kDa
Target: BMP2		Observed MW.: 13-44 kDa
Immunogen: KLH conjugated synthetic peptide derived from human BMP2: 283-365/396.		Subcellular Location: Secreted
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: 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 —

25 ug total protein per lane of various lysates (see on figure) probed with BMP2 polyclonal antibody, unconjugated (bs-1012R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

— 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 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-

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

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=10.7]** Yingqi Chen. et al. Biofunctional Supramolecular Injectable Hydrogel with Spongy-Like Metal-Organic Coordination for Effective Repair of Critical-Sized Calvarial Defects. ASIAN J PHARM SCI. 2024 Oct;;100988 IHC ;Rat. 10.1016/j.ajps.2024.100988