

**bs-10696R****[ Primary Antibody ]****BMP2 Rabbit pAb****Bioss**  
**ANTIBODIES**

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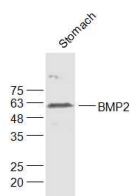
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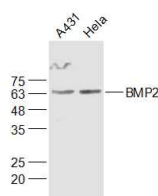
400-901-9800

**— DATASHEET —**

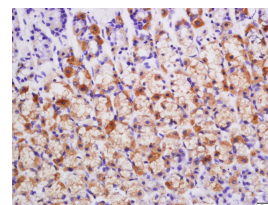
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000) <b>IHC-P</b> (1:100-500) <b>IHC-F</b> (1:100-500) <b>IF</b> (1:100-500)  <b>Reactivity:</b> Human, Mouse, Rat (predicted: Pig, Cow, Chicken, Dog, GuineaPig, Horse)  <b>Predicted MW.:</b> 13/44 kDa  <b>Subcellular Location:</b> Secreted
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 650	<b>SWISS:</b> P12643	
<b>Target:</b> BMP2		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human BMP2: 341-396/396.		
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> 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: Stomach (Mouse) Lysate at 40 ug  
Primary: Anti-BMP2 (bs-10696R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 13/44 kD  
Observed band size: 59 kD



Sample: A431(Human) Cell Lysate at 30 ug  
Hela(Human) Cell Lysate at 30 ug Primary: Anti-BMP2 (bs-10696R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 13/44 kD Observed band size: 64 kD



Tissue/cell: rat stomach 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-10696R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

**— SELECTED CITATIONS —**

- **[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.* 2025 Feb;20(1):100988. IHC ;Rat. 39926635
- **[IF=10.2]** Li Fu-Xing-Zi. et al. Cold exposure protects against medial arterial calcification development via autophagy. *J NANOBIOTECHNOL.* 2023 Dec;21(1):1-22 WB ;Mouse. 37461031

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

- **[IF=10.2]** Zheng Ming-Hui. et al. Vascular wall microenvironment: exosomes secreted by adventitial fibroblasts induced vascular calcification. J NANOBIOTECHNOL. 2023 Dec;21(1):1-21 WB,IHC ;Mouse. 37667298