

bs-1374R**[Primary Antibody]****BMP4 Rabbit pAb****Bioss**
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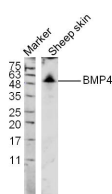
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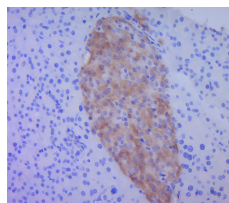
400-901-9800

— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		IHC-P (1:100-500)
GeneID: 652	SWISS: P12644	IHC-F (1:100-500)
Target: BMP4		IF (1:100-500)
Immunogen: KLH conjugated synthetic peptide derived from human BMP4: 251-350/408.		Reactivity: Mouse, Sheep (predicted: Human, Rat)
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		Predicted MW.: 13/45 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 ,Extracellular matrix
Background: BMPs (bone morphogenetic proteins) belong to the TGF beta superfamily of structurally related signaling proteins. Members of this superfamily are widely represented throughout the animal kingdom and have been implicated in a variety of developmental processes. Proteins of the TGF beta superfamily are disulfide-linked dimers composed of two 12-15 kDa polypeptide chains. As implied by their name, BMPs initiate, promote and regulate bone development, growth, remodeling and repair. Smad1 translocation to the nucleus is observed after the addition of BMP4 (also designated BMP2B), suggesting that BMP4 may play a role in activation of the Smad pathway. BMP is secreted into the extracellular matrix.		

— VALIDATION IMAGES —

Sample: Sheep skin (Sheep) Lysate at 40 ug
 Primary: Anti-BMP4 (bs-1374R) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 13/45 kD
 Observed band size: 50 kD



Paraformaldehyde-fixed, paraffin embedded (mouse pancreas tissue); 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 (BMP4) Polyclonal Antibody, Unconjugated (bs-1374R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

— SELECTED CITATIONS —

- **[IF=9.995]** Handeng Lyu. et al. Niche-mediated repair of airways is directed in an occupant-dependent manner. CELL REP. 2022 Dec;41:111863 IF ;Mouse. 36543133
- **[IF=10.2]** Zheng Ming-Hui. et al. Vascular wall microenvironment: exosomes secreted by adventitial fibroblasts induced vascular calcification. J NANOBIOECHANOL. 2023 Dec;21(1):1-21 WB,IHC ;Mouse. 37667298

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

- **[IF=8.9]** Guanghua Xiong. et al. Subchronic co-exposure of polystyrene nanoplastics and 3-BHA significantly aggravated the reproductive toxicity of ovaries and uterus in female mice. ENVIRON POLLUT. 2024 May;;124101 WB ;Mouse. 38710361
- **[IF=5.4]** Yixiao Chen. et al. Repair of Cartilage Defects Using ATDC5 Cells Treated with BBR Loaded in Chitosan Hydrogel. ACS BIOMATER-SCI ENG. 2024;XXX(XXX):XXX-XXX IHC ;Mouse. 39654118
- **[IF=2.84]** Wang, Xiaoli, Yansong Zhao, and Xin Wang. "Umbilical cord blood cells regulate the differentiation of endogenous neural stem cells in hypoxic ischemic neonatal rats via the hedgehog signaling pathway." Brain Research (2014). IHC ;="Rat". 24565927