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## BMP4 Rabbit pAb

Catalog Number: bs-1374R

Target Protein: BMP4

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

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

Reactivity: Mouse, Sheep (predicted:Human, Rat)

Predicted MW: 13/45 kDa

Entrez Gene: 652

Swiss Prot: P12644

Source: KLH conjugated synthetic peptide derived from human BMP4: 251-350/408.

Purification: affinity purified by Protein A

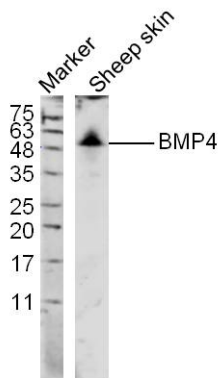
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

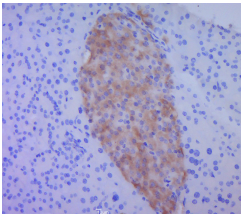
**Background:** BMPs (bone morphogenetic proteins) belong to the TGF beta superfamily of structurally related signaling proteins. Members of this superfamily are widely represented throughout the animal kingdom and have been implicated in a variety of developmental processes. Proteins of the TGF beta 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

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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.

## PRODUCT SPECIFIC PUBLICATIONS

[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 NANOBIOTECHNOL. 2023 Dec;21(1):1-21 WB,IHC ; Mouse . 37667298

[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 BIOMATERIALS ENG. 2024;XXXX(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