bs-0514R **[Primary Antibody]**

BMP2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 650 **SWISS:** P12643

Target: BMP2

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.

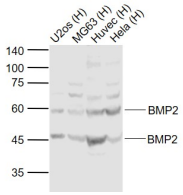
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Cow, Dog)

Predicted MW.: 13/44 kDa

Subcellular Location: Secreted

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 Lane 4: Hela (Human) Cell Lysate at 30 ug Primary: Anti-BMP2 (bs-0514R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 60/45 kD Observed band size: 60/45 kD

SELECTED CITATIONS

- **[IF=6.064]** Yi-Xuan Wang. et al. MiR-20a promotes osteogenic differentiation in bone marrow-derived mesenchymal stem/stromal cells and bone repair of the maxillary sinus defect model in rabbits. FRONT BIOENG BIOTECH. 2023; 11: 1127908 WB ;Human. 37091341
- **[IF=5.4]** Chaode Cen. et al.Construction of a 3D Degradable PLLA/β-TCP/CS Scaffold for Establishing an Induced Membrane Inspired by the Modified Single-Stage Masquelet Technique.ACS BIOMATERIAL SCIENCE & ENGINEERING.2025 Mar 10;11(3):1629-1645. IHC ;Rabbit. 10.1021/acsbiomaterials.4c01849
- **[IF=3.21]** Ming-Zhi Huang. et al. Exosomes from artesunate-treated bone marrow-derived mesenchymal stem cells transferring SNHG7 to promote osteogenesis via TAF15-RUNX2 pathway. REGEN MED. 2022 Oct 02 WB ;Mouse, Human. 36184881

- **[IF=2.586]** Yixin Xia. et al. Regulation of endothelial cells on the osteogenic ability of bone marrow mesenchymal stem cells in peri-implantitis. TISSUE CELL. 2023 Apr;81:102042 WB ;Dog. 36812664