

bsm-0514M**[Primary Antibody]****BMP2 Mouse mAb****Bioss**
ANTIBODIES

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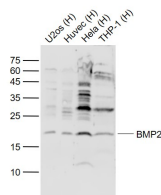
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DATASHEET

Host: Mouse	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Monoclonal	CloneNo.: 7F9	Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Cow, Dog)
GeneID: 650	SWISS: P12643	Predicted MW.: 13/44 kDa
Target: BMP2		Subcellular Location: Secreted
Purification: affinity purified by Protein A		
Concentration: 1mg/ml		
Storage: Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS 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

Sample: Lane 1: U2os (Human) Cell Lysate at 30 ug
Lane 2: Huvec (Human) Cell Lysate at 30 ug
Lane 3: Hela (Human) Cell Lysate at 30 ug
Lane 4: THP-1 (Human) Cell Lysate at 30 ug
Primary: Anti-BMP2 (bsm-0514M) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 14/18/30 kD
Observed band size: 18 kD

SELECTED CITATIONS

- **[IF=5.003]** Kai Zhang, et al. Multifunctional Alendronate-PEI Carbon Dots for the Treatment Bone-Destructive Diseases via Bidirectional Regulation of Osteoblast-Osteoclast Function. Advanced Therapeutics. 2022 Sep;;2200149 IHC ;Mouse. 10.1002/adtp.202200149