## bs-9447R

## [ Primary Antibody ]

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# **BMP10** Rabbit pAb

sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GeneID: 27302 SWISS: 095393

Target: BMP10

**Immunogen:** KLH conjugated synthetic peptide derived from human BMP10:

331-424/424.

**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: Bone morphogenic proteins (BMPs) are members of the TGF beta superfamily and are involved in the induction of cartilage and bone formation. BMP-10 (Bone morphogenetic protein 10) is a 424 amino acid secreted protein that exists as a disulfide-linked homodimer. Expressed specifically in heart tissue, BMP-10 functions to prevent the premature activation of p57 (a negative cell cycle regulator), thereby maintaining the proliferative activity of embryonic cardiomyocytes and playing a critical role in the formation of trabeculae within the developing heart. Additionally, BMP-10 inhibits the growth and migration of endothelial cells and functions as a ligand for ALK-1, a protein that is tightly linked to angiogenesis. This suggests that, in addition to its role in cardiomyocyte formation, BMP-10 participates in the formation of

blood vessels in developing cardiac muscle.

**Applications: ELISA** (1:5000-10000)

Reactivity: (predicted: Human, Mouse,

Rat, Rabbit, Pig, Sheep,

Cow, Horse)

**Predicted** 12 kDa MW.:

Subcellular Location: Secreted

#### — SELECTED CITATIONS ————

• [IF=2.24] Wu, Mei, et al. "Expression analysis of BMP2, BMP5, BMP10 in human colon tissues from Hirschsprung disease patients." Int J Clin Exp Pathol 7.2 (2014): 529-536. WB; Human. 24551273