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## BMP10 Rabbit pAb

Catalog Number: bs-9447R

Target Protein: BMP10

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: ELISA (1:5000-10000)

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

Predicted MW: 12 kDa

Entrez Gene: 27302

Swiss Prot: O95393

Source: KLH conjugated synthetic peptide derived from human BMP10: 331-424/424.

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:** 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.

### PRODUCT SPECIFIC PUBLICATIONS

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[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