




Rabbit Anti-BMP10 antibody

SL9447R

Product Name:	BMP10
Chinese Name:	骨形态发生蛋白10抗体
Alias:	BMP-10; Bmp10; BMP10_HUMAN; Bone morphogenetic protein 10; Bone morphogenetic protein 10 preproprotein; MGC126783.
文献引用  :	Specific References(1) SL9447R has been referenced in 1 publications. [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. PubMed:n/a
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	12kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human BMP10:331-424/424
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of

	antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>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.</p> <p>Function: Required for maintaining the proliferative activity of embryonic cardiomyocytes by preventing premature activation of the negative cell cycle regulator CDKN1C/p57KIP and maintaining the required expression levels of cardiogenic factors such as MEF2C and NKX2-5. Acts as a ligand for ACVRL1/ALK1, BMPR1A/ALK3 and BMPR1B/ALK6, leading to activation of SMAD1, SMAD5 and SMAD8 transcription factors. Inhibits endothelial cell migration and growth.</p> <p>Subunit: Homodimer; disulfide-linked.</p> <p>Subcellular Location: Secreted.</p> <p>Similarity: Belongs to the TGF-beta family.</p> <p>SWISS: O95393</p> <p>Gene ID: 27302</p> <p>Database links:</p> <p>Entrez Gene: 27302Human</p> <p>Entrez Gene: 12154Mouse</p> <p>Entrez Gene: 500245Rat</p> <p>Omim: 608748Human</p> <p>SwissProt: O95393Human</p>

[SwissProt: Q9R229](#)Mouse

[SwissProt: Q4AEG6](#)Rat

[Unigene: 158317](#)Human

[Unigene: 483321](#)Mouse

[Unigene: 118010](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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