ARG24180
anti-BMP10 antibody

Package: 500 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal recognizes BMP10
Tested Reactivity	Hu
Tested Application	ELISA
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	BMP10
Immunogen	Synthetic peptide corresponding to the amino acids 84 - 94 (LDKGVVTYKFK) of human BMP10.
Conjugation	Un-conjugated
Alternate Names	Bone Morphogenetic Protein 10; BMP10

Application Instructions

Application table

Application	Dilution
ELISA	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Buffer	PBS and 0.09% Sodium Azide
Preservative	0.09% Sodium Azide
Concentration	5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	BMP10
Gene Full Name	Bone Morphogenetic Protein 10
Background	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of

	proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate the mature protein, which binds to the activin receptor-like kinase 1 (ALK1) and plays important roles in cardiovascular development including cardiomyocyte proliferation and regulation of heart size, closure of the ductus arteriosus, angiogenesis and ventricular trabeculation.
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. May reduce cell migration and cell matrix adhesion in breast cancer cell lines.
Calculated Mw	48 kDa
PTM	Cleavage on pair of basic residues, Disulfide bond, Glycoprotein
Cellular Localization	Secreted