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ARG83019
Human / Mouse BMP10 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83019 Human / Mouse BMP10 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human / Mouse BMP10 in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu, Ms
Tested Application	ELISA
Target Name	BMP10
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	BMP10, Bone Morphogenetic Protein 10, BMP 10

Application Instructions

Assay Time	~ 4 hours

Properties

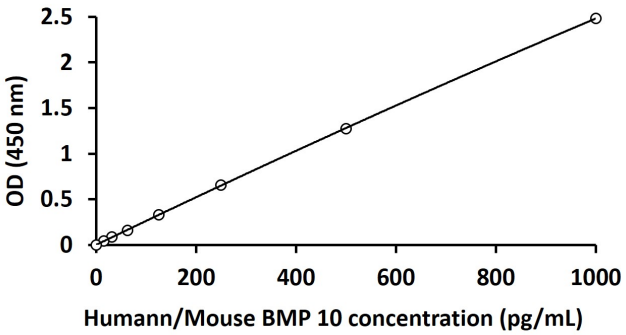
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory 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. [provided by RefSeq, Aug 2016]

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. [Uniprot]
Highlight	Related products: BMP antibodies; BMP ELISA Kits; BMP recombinant proteins; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Cleavage on pair of basic residues, Disulfide bond, Glycoprotein. [UniProt]
Cellular Localization	Secreted. [UniProt]

Images



ARG83019 Human/Mouse BMP10 ELISA Kit standard curve image

ARG83019 Human/Mouse BMP10 ELISA Kit results of standard run with optical density reading at 450 nm