

Human BMP-2 ELISA Kit

Catalog No: #EK5130

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Description

Product Name	Human BMP-2 ELISA Kit
Specificity	Human
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	CHO,Q283-R396
Other Names	Bone morphogenetic protein 2; BMP2;
Accession No.	C8C060
Uniprot	C8C060

Application Details

sensitivity:2pg mlDetect Range:31.2pg ml-2000pg ml
sample_type:bone tissue cell culture supernates and serum.
capture_antibody:monoclonal antibody from mouse
detection_antibody:polyclonal antibody from goat
gene_name:BMP2
protein_name:Bone morphogenetic protein 2
gene_full_name:bone morphogenetic protein 2
tissue_specificity:sequence_similarities:tmb_incubation:15-20min
research_category:cardiovascular|angiogenesis|growth factors|tgf|signal transduction|growth factors/hormones|cytoskeleton / ecm|extracellular matrix|structures|bone|stem cells|signaling pathways|tgf beta|secreted|neural stem cells|extracellular|cancer

Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human BMP-2

Background

protein_function:Bone morphogenetic protein-2(BMP-2, BMP 2A) belongs to the transforming growth factor beta(TGF-beta) superfamily. It is thought to be involved in cartilage and bone formation during embryogenesis, but may have additional functions in morphogenesis as implied by its expression in various organs and embryonic tissues of mice.1 BMP-2 has been identified as a candidate mediator of retinoid activity. BMP-2 protein induces medulloblastoma cell apoptosis, whereas the BMP-2 antagonist noggin blocks both retinoid and BMP-2-induced apoptosis. BMP-2 also induces p38 mitogen-activated protein kinase(MAPK), which is necessary for BMP-2 and retinoid-induced apoptosis.2 Bone morphogenetic proteins(BMPs) are known to promote osteogenesis, and clinical trials are currently underway to evaluate the ability of certain BMPs to promote fracture-healing and spinal fusion.3 The standard product used in this kit is recombinant human BMP-2, constituting dimer by two chains of 114 amino acids with the molecular mass of 26KDa.

Note: This product is for in vitro research use only