

Datasheet for ABIN6719672

BMP2 ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	1 kit
Target:	BMP2
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Bone, Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: BDA2, BMP-2, BMP-2A, Bmp2, BMP2_HUMAN, BMP2A, Bone morphogenetic protein 2, Bone morphogenetic protein 2A</p> <p>Background: 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</p>

Product Details

apoptosis. BMP-2 also induces p38 mitogen-activated protein kinase(MAPK), which is necessary for BMP-2 and retinoid-induced apoptosis.² Bone morphogenic 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.

Gene Name: BMP2

Production: Natural and recombinant human BMP-2. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard:CHO , Immunogen sequence: Q283-R396

Target Details

Target:	BMP2
Alternative Name:	BMP-2 (BMP2 Products)
Gene ID:	650
NCBI Accession:	NP_001191
UniProt:	C8C060
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process , Regulation of Muscle Cell Differentiation , Growth Factor Binding , Positive Regulation of fat Cell Differentiation

Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human BMP-2 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human bone tissue, cell culture supernates or serum to each empty well. It is recommended that each human BMP-2 standard solution and each sample be measured in duplicate.</p> <p>ELISA Dilution: 31.2pg/mL-2000pg/mL</p>
Sample Volume:	100 µL
Plate:	Pre-coated

Application Details

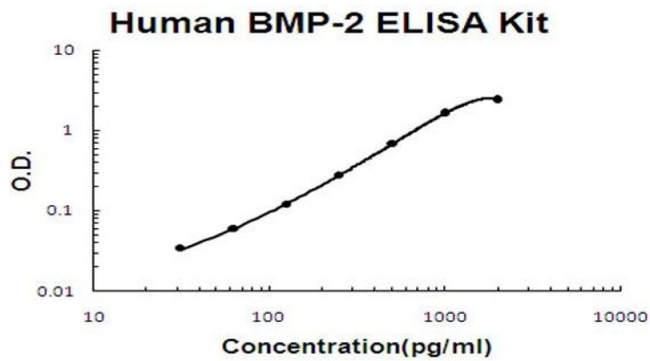
Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image 1. Human BMP-2 Accusignal ELISA Kit Human BMP-2 AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <2pg/ml.