

Datasheet for ABIN5510535
BMP2 ELISA Kit



[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	BMP2
Binding Specificity:	AA 283-396
Reactivity:	Dog
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Dog Canine BMP-2
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: CHO Immunogen sequence: Q283-R396
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Target Details

Target:	BMP2
Alternative Name:	Bmp2 (BMP2 Products)
Background:	Protein Function: Induces cartilage and bone formation.

Target Details

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. 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. 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. The standard product used in this kit is recombinant Dog Canine BMP-2, constituting dimer by two chains of 114 amino acids with the molecular mass of 26KDa.

Synonyms: Bone morphogenetic protein 2,BMP-2,Bone morphogenetic protein 2A,BMP-2A,Bmp2,Bmp-2,

Full Gene Name: Bone morphogenetic protein 2

Cellular Localisation: Secreted.

UniProt: [P21274](#)

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

Plate: Pre-coated

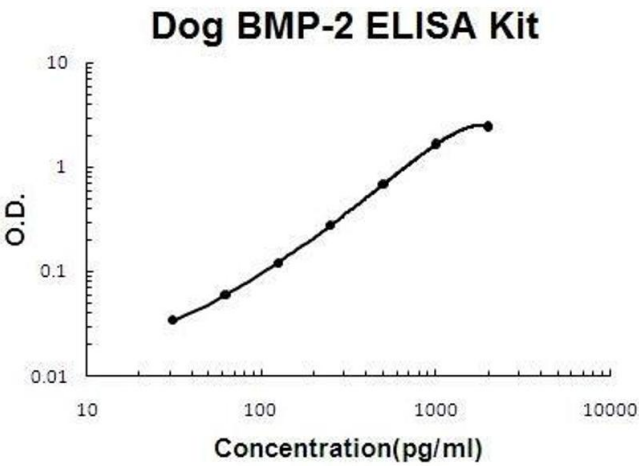
Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4 °C for 6 months, at -20 °C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Dog BMP-2 PicoKine ELISA Kit standard curve