

BMP-2 elisa kit

Bovine BMP-2 PicoKine ELISA Kit

CATALOG # AAA124764	REACTIVITY Bovine There is no detectable cross-reactivity with other relevant proteins.	APPLICATIONS ELISA
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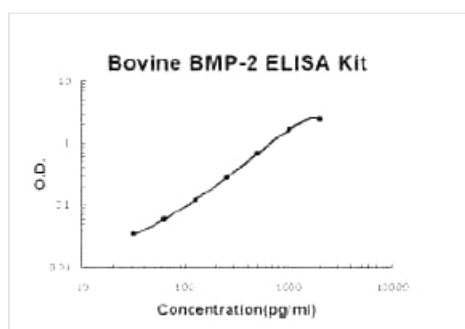
PRODUCT SYNONYMS

BMP-2; Bovine BMP-2 PicoKine ELISA Kit; Bone morphogenetic protein 2; BMP2; BMP-2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Bovine BMP-2
Sequence Length	396
Assay Type	Quantitative Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	<2pg/ml
Applicable Applications for BMP-2 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration weretested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration weretested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP-2 elisa kit	Principle of the Assay: Bovine BMP-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Bovine BMP-2 has been precoated onto 96-well plates. Standards(Expression system for standard: CHO; Immunogen sequence: Q283-R396) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Bovine BMP-2 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Bovine BMP-2 amount of sample captured in plate. 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 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 Bovine BMP-2, constituting dimer by two chains of 114 amino acids with the molecular mass of 26KDa.
Product Categories/Family for BMP-2 elisa kit	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

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557369
NCBI GeneID	650
NCBI Accession #	NP_001191.1
NCBI GenBank Nucleotide #	NM_001200.3
UniProt Accession #	C8C060; P12643
Molecular Weight	44702 MW
NCBI Official Full Name	bone morphogenetic protein 2 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 2
NCBI Official Symbol	BMP2
NCBI Official Synonym Symbols	BDA2; BMP2A
NCBI Protein Information	bone morphogenetic protein 2
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Gene Name	BMP2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.