

BMP-2 elisa kit

Dog Canine BMP-2 PicoKine ELISA Kit

CATALOG # AAA124769	REACTIVITY Canine There is no detectable cross-reactivity with other relevant proteins.	APPLICATIONS ELISA
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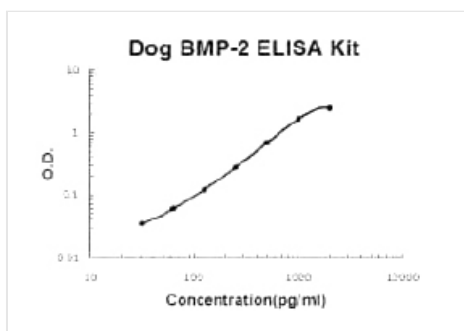
PRODUCT SYNONYMS

BMP-2; Dog Canine BMP-2 PicoKine ELISA Kit; Bone morphogenetic protein 2; Bone morphogenetic protein 2A; BMP-2A; Bmp2; Bmp-2; BMP-2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Dog Dog Canine BMP-2
Sequence Length	394
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: Dog Dog Canine BMP-2 ELISA Kit was based on standard sandwich enzyme-linked immune- sorbent assay technology. A monoclonal antibody from rat specific for Dog Canine 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 Dog Canine 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 Dog Dog Canine 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. 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.
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 #	71896669
NCBI GeneID	12156
NCBI Accession #	NP_031579.2
NCBI GenBank Nucleotide #	NM_007553.3
UniProt Accession #	P21274 ; Q497W8
Molecular Weight	44525 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	Bmp2a; AI467020
NCBI Protein Information	bone morphogenetic protein 2
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Gene Name	Bmp2
UniProt Synonym Gene Names	Bmp-2; BMP-2; BMP-2A

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.