

Human BMP-4 ELISA Kit | BMP-4 elisa kit

BMP-4 Human ELISA Kit

CATALOG # AAA59024	REACTIVITY Human	APPLICATIONS ELISA
------------------------------	----------------------------	------------------------------

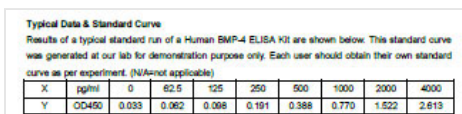
PRODUCT SYNONYMS

BMP-4; BMP-4 Human ELISA Kit; Human BMP-4; BMP-4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Samples	human serum, plasma, body fluids, tissue lysates or cell culture supernates
Detection Range	62.5 pg/ml-4000 pg/ml
Sensitivity	< 4 pg/ml
Applicable Applications for BMP-4 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP-4 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-BMP-4 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-BMP-4 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 BMP-4 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of BMP-4 can be calculated.

Background: Bone morphogenetic protein 4 (BMP-4) is a member of the transforming growth factor-beta superfamily of regulatory molecules. Bone morphogenetic proteins were originally identified by the ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site, and known for their ability to induce bone and cartilage development. In human embryonic development, BMP4 is a critical signaling molecule required for the early differentiation of the embryo and establishing of a dorsal-ventral axis. BMP4 is secreted from the dorsal portion of the notochord, and it acts in concert with sonic hedgehog (released from the ventral portion of the notochord) to establish a dorsal-ventral axis for the differentiation of later structures. Increase in expression of BMP4 has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157276597
NCBI GeneID	652
NCBI Accession #	NP_570912.2
NCBI GenBank Nucleotide #	NM_130851.2
UniProt Accession #	P12644; Q9UM80
Molecular Weight	46,555 Da
NCBI Official Full Name	bone morphogenetic protein 4 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 4
NCBI Official Symbol	BMP4
NCBI Official Synonym Symbols	ZYME; BMP2B; OFC11; BMP2B1; MCOPS6
NCBI Protein Information	bone morphogenetic protein 4; BMP-4; BMP-2B; bone morphogenetic protein 2B
UniProt Protein Name	Bone morphogenetic protein 4
UniProt Gene Name	BMP4
UniProt Synonym Gene Names	BMP2B; DVR4; BMP-4; BMP-2B
UniProt Entry Name	BMP4_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/bmp-4/59024>