

Mouse bone morphogenetic protein 2 ELISA Kit | BMP2 elisa kit

Mouse Bone morphogenetic protein 2, BMP-2 ELISA Kit

CATALOG #
AAA79794

REACTIVITY
Mouse

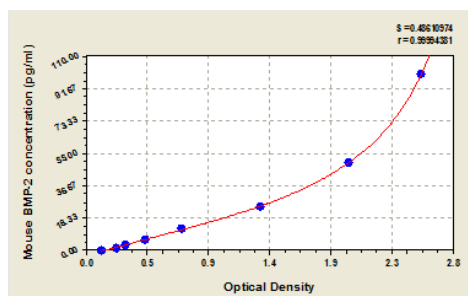
PRODUCT SYNONYMS

bone morphogenetic protein 2; Mouse Bone morphogenetic protein 2; BMP-2 ELISA Kit; BMP2A; ; BMP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Mouse BMP2. No significant cross-reactivity or interference between Mouse BMP2 and analogues was observed.
Sequence Length	394
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Detection Range	1.56 pg/ml-100 pg/ml
Sensitivity	0.39 pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Protein Biological Process 1	Developmental Protein
Protein Biological Process 3	Chondrogenesis
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP2 elisa kit

Introduction: Bone morphogenetic protein 2 or BMP-2 belongs to the TGF-beta superfamily of proteins. Like other bone morphogenetic proteins, BMP-2 plays an important role in the development of bone and cartilage. It is involved in the hedgehog pathway, TGF beta signaling pathway, and in cytokine-cytokine receptor interaction. It is involved also in cardiac cell differentiation and epithelial to mesenchymal transition. Members of the BMP family are potentially useful as therapeutics in areas such as spinal fusion. BMP-2 and BMP-7 have been shown in clinical studies to be beneficial in the treatment of a variety of bone-related conditions including delayed union and non-union.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to BMP-2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated polyclonal antibody preparation specific for BMP-2 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain BMP-2, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of BMP-2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

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	44,525 Da
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; bone morphogenetic protein 2A
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Gene Name	Bmp2
UniProt Synonym Gene Names	Bmp-2; BMP-2; BMP-2A
UniProt Entry Name	BMP2_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/bmp2-mouse-elisa-kits/bone-morphogenetic-protein-2/79794>