

Mouse anti-Human BMP-2 Monoclonal Antibody | anti-BMP2 antibody

Anti-BMP-2 Antibody, Mouse Monoclonal

CATALOG # AAA254915	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunoprecipitation, ELISA, Western Blot
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PRODUCT SYNONYMS

BMP-2; Monoclonal Antibody; Anti-BMP-2 Antibody; Mouse Monoclonal; BMP-2 Antibody; Mouse MAb; bone morphogenetic protein 2; Anti-BDA2 Antibody; Anti-BDA2A Antibody; Anti-BMP2A Antibody; anti-BMP2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	7D10G8E2
Specificity	Human BMP-2. No cross-reactivity in ELISA with Human BMP5 E Coli cell lysate
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-BMP2 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human BMP-2 protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human BMP-2 (rh BMP-2). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-BMP2 mouse monoclonal antibody at 1:500 dilution Lane A: Caco2 Whole Cell Lysate Lane B: THP1 Whole Cell Lysate Lane C: HeLa Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 45 kDa Observed band size: 39 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

BMP2 was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate Lane B: 0.5 mg Caco-2 Whole Cell Lysate 0.5 uL anti-BMP2 mouse monoclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-BMP2 mouse monoclonal antibody, at 1:500 dilution Secondary antibody: Dylight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution Developed using the odssey technique. Performed under reducing conditions. Predicted band size: 58 kDa Observed band size: 58 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-BMP2 antibody	BMP-2 protein, like other bone morphogenetic proteins, plays an important role in the development of bone and cartilage. BMP-2 protein is involved in the hedgehog pathway, TGF beta signaling pathway, and cytokine-cytokine receptor interaction. BMP-2 and BMP-7 are osteogenic BMPs that have been demonstrated to potently induce osteoblast differentiation in a variety of cell types. BMP-2, BMP-4 and BMP-7 are known to be of major importance in bone formation and repair. In cancerous tissues BMP-2 protein may play an important role in the progression of glioma.
Product Categories/Family for anti-BMP2 antibody	Early Mesodermal Lineage Markers
References	Jiao X, et al. (2007) Heparan sulfate proteoglycans (HSPGs) modulate BMP-2 osteogenic bioactivity in C2C12 cells. J Biol Chem. 282(2):1080-6.Michon F, et al. (2008) BMP-2 and BMP-7 play antagonistic roles in feather induction. Development 135 (16):2797-805.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557369
NCBI GeneID	650
NCBI Accession #	NP_001191.1
NCBI GenBank Nucleotide #	NM_001200.2
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; BMP-2A; bone morphogenetic protein 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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/bmp-2-antibody-clone-7d10g8e2-immunoprecipitation-western-blot-elisa/254915>