

anti-Human, Rat BMP2 Polyclonal Antibody | anti-BMP2 antibody

Anti-BMP2 Antibody

CATALOG # AAA46364	REACTIVITY Human, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
------------------------------	---------------------------------	--

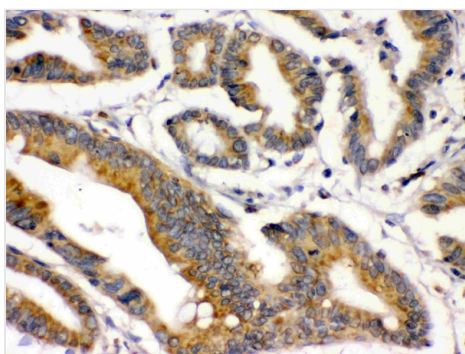
PRODUCT SYNONYMS

BMP2; Polyclonal Antibody; Anti-BMP2 Antibody; Bone morphogenetic protein 2; BDA2; BMP-2; BMP-2A; Bmp2; BMP2_HUMAN; BMP2A; Bone morphogenetic protein 2A; bone morphogenetic protein 2; anti-BMP2 antibody

PRODUCT SPECIFICATIONS

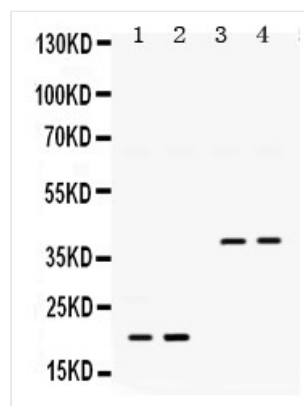
Reactivity	Human, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	396
Applicable Applications for anti-BMP2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human BMP2 (283-312aa QAKHKQRKRLKSSCKRHPLYVDFSDVGWND), identical to the related mouse and rat sequences.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)

Anti- BMP-2 Picoband antibody, AAA46364, IHC(P)IHC(P): Human Intestinal Cancer Tissue



WB (Western Blot)

Anti- BMP-2 Picoband antibody, AAA46364, Western blottingAll lanes: Anti BMP-2 (AAA46364) at 0.5ug/mlLane 1: Rat Lung Tissue Lysate at 50ugLane 2: Rat Brain Tissue Lysate at 50ugLane 3: U87 Whole Cell Lysate at 40ugLane 4: HELA Whole Cell Lysate at 40ugPredicted bind size: 45KDObserved bind size: 20 KD, 40KD

ADDITIONAL INFORMATION

Related Product Information for anti-BMP2 antibody	Description: Rabbit IgG polyclonal antibody for Bone morphogenetic protein 2(BMP2) detection. Tested with WB, IHC-P, ELISA in Human;Rat. Background: BMP2 is also known as Bone morphogenetic protein 2 or BMP2A. It is mapped to 20p12. The protein encoded by this gene belongs to the transforming growth factor-beta (TGFB) superfamily. BMP-2, like other bone morphogenetic proteins, 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. Also, it is involved in cardiac cell differentiation and epithelial to mesenchymal transition. In addition, BMP2A has been suggested as a reasonable candidate for the human condition fibrodysplasia (myositis) ossificans progressiva, on the basis of observations in a Drosophila model.
References	1. Gopal Rao, V. V. N., Loffler, C., Wozney, J. M., Hansmann, I. The gene for bone morphogenetic protein 2A (BMP2A) is localized to human chromosome 20p12 by radioactive and nonradioactive in situ hybridization. Hum. Genet. 90: 299-302, 1992. 2. Kaplan, F. S., Tabas, J. A., Zasloff, M. A. Fibrodysplasia ossificans progressiva: a clue from the fly? Calcif. Tissue Int. 47: 117-125, 1990. 3. Sampath TK, Coughlin JE, Whetstone RM, Banach D, Corbett C, Ridge RJ, Ozkaynak E, Oppermann H, Rueger DC (August 1990)."Bovine osteogenic protein is composed of dimers of OP-1 and BMP-2A, two members of the transforming growth factor-beta superfamily". J. Biol. Chem. 265 (22): 13198-205.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557369
NCBI GeneID	650
NCBI Accession #	NP_001191.1
NCBI GenBank Nucleotide #	NM_001200.3
UniProt Accession #	P12643
Molecular Weight	44,702 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	BDA2; BMP2A
NCBI Protein Information	bone morphogenetic protein 2
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Gene Name	BMP2
UniProt Synonym Gene Names	BMP2A; BMP-2; BMP-2A
UniProt Entry Name	BMP2_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/polyclonal/bmp2-antibody-immunohistochemistry-western-blot-elisa/46364>