

Datasheet for ABIN3043489  
**anti-BMP2 antibody (C-Term)**



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22 Publications

## Overview

Quantity:	100 µg
Target:	BMP2
Binding Specificity:	AA 283-312, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMP2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Bone morphogenetic protein 2(BMP2) detection. Tested with WB, IHC-P, ELISA in Human,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human BMP-2 (283-312aa QAKHKQRKRLKSSCKRHPLYVDFSDVGWND), identical to the related mouse and rat sequences.
Sequence:	QAKHKQRKRL KSSCKRHPLY VDFSDVGWND
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Bone morphogenetic protein 2(BMP2) detection. Tested with WB, IHC-P, ELISA in Human,Rat. Gene Name: bone morphogenetic protein 2

## Product Details

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Protein Name: Bone morphogenetic protein 2

Purification: Immunogen affinity purified.

## Target Details

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Target: BMP2

Alternative Name: BMP2 ([BMP2 Products](#))

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.

Synonyms: BDA2 antibody|BMP-2 antibody|BMP-2A antibody|Bmp2 antibody|BMP2\_HUMAN antibody|BMP2A antibody|Bone morphogenetic protein 2 antibody| Bone morphogenetic protein 2A antibody

Gene ID: 650

UniProt: [P12643](#)

Pathways: [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [Regulation of Muscle Cell Differentiation](#), [Growth Factor Binding](#), [Positive Regulation of fat Cell Differentiation](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
ELISA: Concentration: 0.1-0.5 µg/mL, Tested Species: Human  
Notes: Tested Species: Species with positive results. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

## Application Details

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Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

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Product cited in: Jian, Fan, Hu, He, Li, Zheng, Ren, Li: "Effects of rhBMP-2 gene transfection to periodontal ligament cells on osteogenesis." in: **Bioscience reports**, Vol. 37, Issue 3, (2018) ([PubMed](#)).

Fernández, Córdoba: "Hyaluronic acid-induced capacitation involves protein kinase C and tyrosine kinase activity modulation with a lower oxidative metabolism in cryopreserved bull sperm." in: **Theriogenology**, Vol. 122, pp. 68-73, (2018) ([PubMed](#)).

Xu, Sun, Zhang, Xu, Du, Zhang, Wang: "Diabetes mellitus affects the biomechanical function of the callus and the expression of TGF-beta1 and BMP2 in an early stage of fracture healing." in: **Brazilian journal of medical and biological research = Revista brasileira de pesquisas medicas e biologicas**, Vol. 49, Issue 1, pp. e4736, (2016) ([PubMed](#)).

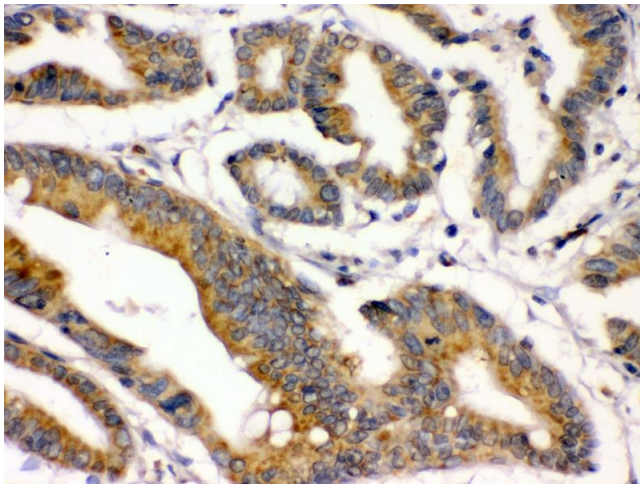
Liu, Chen, Zeng, Cui, Ning, Wang, Belguise, Wang, Qian, Lu, Yi: "Bone morphogenic protein-2

regulates the myogenic differentiation of PMVECs in CBDL rat serum-induced pulmonary microvascular remodeling." in: **Experimental cell research**, Vol. 336, Issue 1, pp. 109-18, (2015) ([PubMed](#)).

Wang, Xue, Zhao, Liu, Ma, Ma: "Form-deprivation myopia induces decreased expression of bone morphogenetic protein-2, 5 in guinea pig sclera." in: **International journal of ophthalmology**, Vol. 8, Issue 1, pp. 39-45, (2015) ([PubMed](#)).

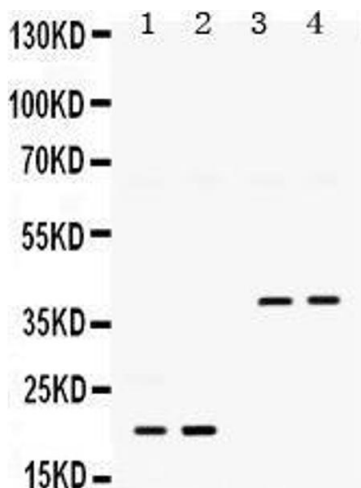
There are more publications referencing this product on: [Product page](#)

Images



Immunohistochemistry

Image 1. IHC(P): Human Intestinal Cancer Tissue



Western Blotting

Image 2.