

Datasheet for ABIN3043800  
**anti-BMP5 antibody (C-Term)**



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5 Images

1 Publication

## Overview

Quantity:	100 µg
Target:	BMP5
Binding Specificity:	AA 332-365, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMP5 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 5(BMP5) detection. Tested with WB, IHC-P, ELISA in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human BMP-5 (332-365aa HQDSSRMSSVGDYNTSEQKQACKKHELYVSFRDL), different from the related mouse sequence by three amino acids.
Sequence:	HQDSSRMSSV GDYNTSEQKQ ACKKHELYVS FRDL
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Bone morphogenetic protein 5(BMP5) detection. Tested with WB, IHC-P, ELISA in Human,Mouse,Rat.  Gene Name: bone morphogenetic protein 5

## Product Details

Protein Name: Bone morphogenetic protein 5

Purification: Immunogen affinity purified.

## Target Details

Target: BMP5

Alternative Name: BMP5 ([BMP5 Products](#))

Background: Bone morphogenetic protein 5 is a protein that in humans is encoded by the BMP5 gene. This gene encodes a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskelatal site. These proteins are synthesized as prepropeptides, cleaved, and then processed into dimeric proteins. And this protein may act as an important signaling molecule within the trabecular meshwork and optic nerve head, and may play a potential role in glaucoma pathogenesis. This gene is differentially regulated during the formation of various tumors.

Synonyms: BMP 5 antibody|BMP-5 antibody|Bmp5 antibody|BMP5\_HUMAN antibody|Bone morphogenetic protein 5 antibody|MGC34244 antibody

Gene ID: 653

UniProt: [P22003](#)

Pathways: [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, 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.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

## Application Details

ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

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.

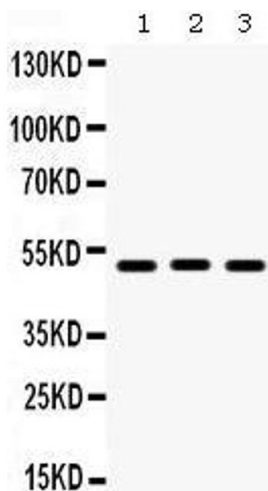
Handling Advice: Avoid repeated freezing and thawing.

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.

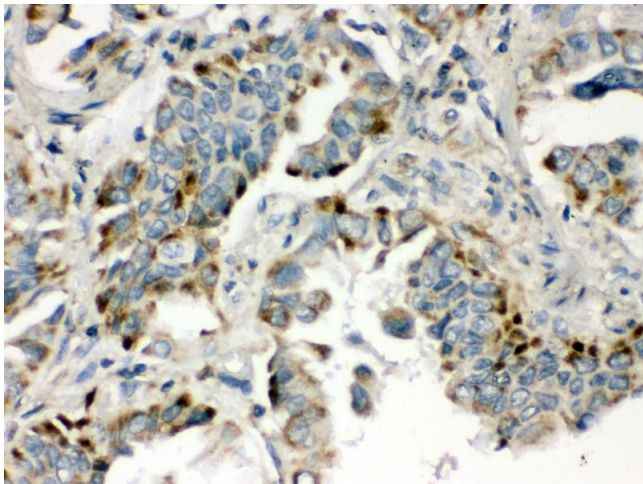
## Publications

Product cited in: 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](#)).



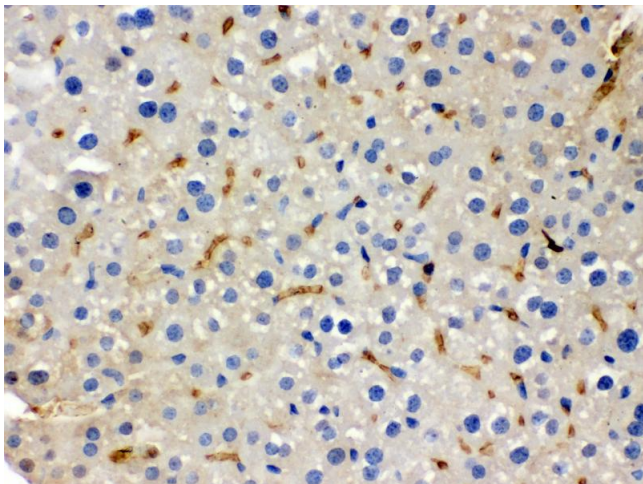
Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti- BMP5 Picoband antibody, IHC(P) IHC(P):  
Human Lung Cancer Tissue



Immunohistochemistry

Image 3. Anti- BMP5 Picoband antibody, IHC(P) IHC(P):  
Mouse Liver Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043800.