Datasheet for ABIN3043800

anti-BMP5 antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	BMP5
Binding Specificity:	AA 332-365, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
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 Protein Name: Bone morphogenetic protein 5

Product Details

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 extraskeletal 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 ABIN921231 in IHC(P).

Application Details

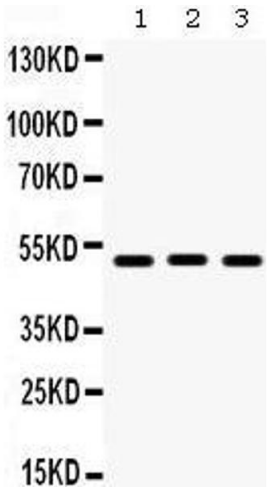
Restrictions:	For Research Use only

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 Na2HPO4, 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.

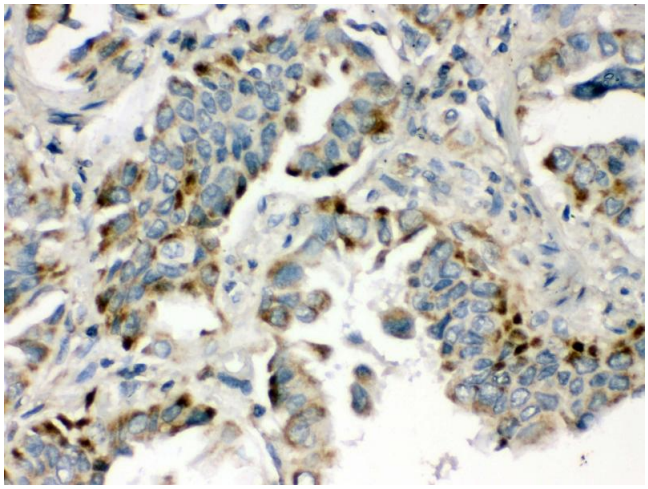
Publications

Product cited in:	Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) (PubMed). Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) (PubMed).



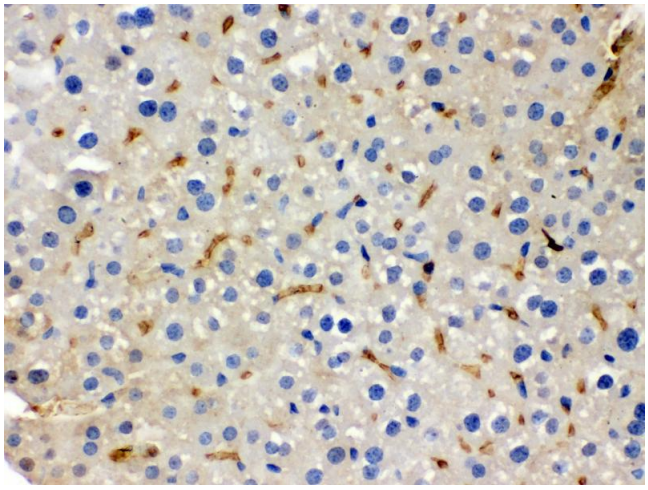
Western Blotting

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.