

**Bmp5 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1716a**

**Specification**

**Bmp5 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">P22003</a>
Other Accession	<a href="#">P49003</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	51737
Antigen Region	16-46

**Bmp5 Antibody (N-term) - Additional Information**

**Gene ID 653**

**Other Names**

Bone morphogenetic protein 5, BMP-5, BMP5

**Target/Specificity**

This Bmp5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 16-46 amino acids from the N-terminal region of human Bmp5.

**Dilution**

WB~~1:1000  
 IHC-P~~1:50~100

**Format**

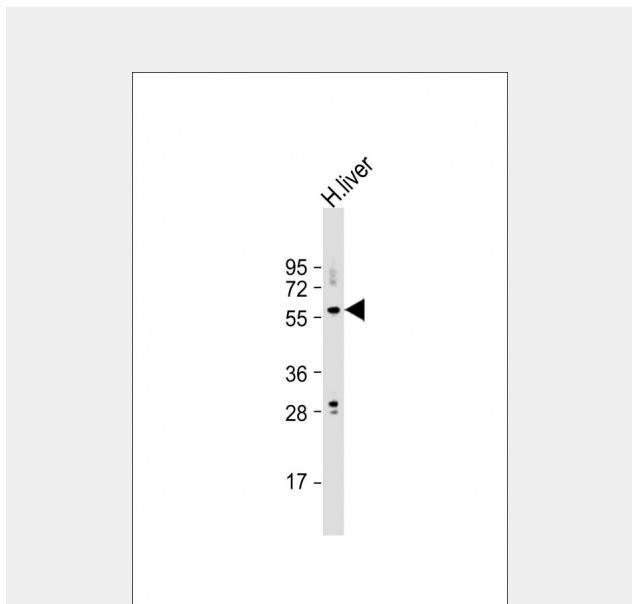
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

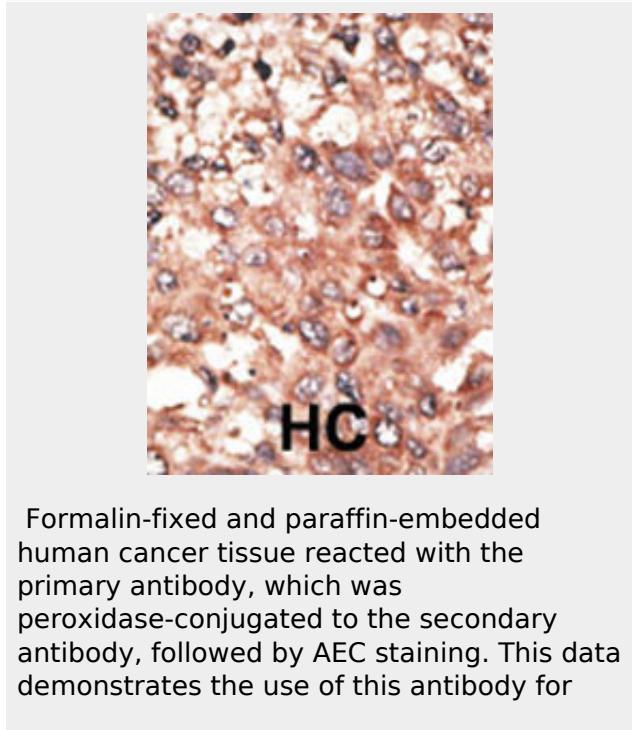
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Bmp5 Antibody (N-term) is for research use



Anti-Bmp5 Antibody (N-term) at 1:1000 dilution + human liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



only and not for use in diagnostic or therapeutic procedures.

immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### Bmp5 Antibody (N-term) - Protein Information

##### Name BMP5

##### Function

Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes, including cartilage and bone formation or neurogenesis (PubMed:<a href="http://www.uniprot.org/citations/11580864" target="\_blank">11580864</a>, PubMed:<a href="http://www.uniprot.org/citations/29321139" target="\_blank">29321139</a>). Initiates the canonical BMP signaling cascade by associating with type I receptor BMPR1A and type II receptor BMPR2 (PubMed:<a href="http://www.uniprot.org/citations/11580864" target="\_blank">11580864</a>). In turn, BMPR1A propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target genes (PubMed:<a href="http://www.uniprot.org/citations/29321139" target="\_blank">29321139</a>, PubMed:<a href="http://www.uniprot.org/citations/11580864" target="\_blank">11580864</a>). Can also signal through non-canonical pathway such as MAPK p38 signaling cascade to promote chondrogenic differentiation (PubMed:<a href="http://www.uniprot.org/citations/20402566" target="\_blank">20402566</a>).

##### Cellular Location

Secreted.

##### Tissue Location

Expressed in the lung and liver.

#### Bmp5 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

#### Bmp5 Antibody (N-term) - Background

Bmp5 is 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. 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.

#### Bmp5 Antibody (N-term) - References

Luo, J., et al., Prostate 51(3):189-200 (2002).  
Jin, Y., et al., Histol. Histopathol. 16(4):1013-1019 (2001).  
Sakaue, M., et al., Biochem. Biophys. Res. Commun. 221(3):768-772 (1996).  
Hahn, G.V., et al., Genomics 14(3):759-762 (1992).  
Celeste, A.J., et al., Proc. Natl. Acad. Sci. U.S.A. 87(24):9843-9847 (1990).

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)