

BMP5 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51013**Specification**

BMP5 Antibody - Product Information

Application	WB, IHC-P, E
Primary Accession	P22003
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52 KDa

BMP5 Antibody - Additional Information**Gene ID** 653**Other Names**

Bone morphogenetic protein 5, BMP-5, BMP5

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human BMP5. The exact sequence is proprietary.

Dilution

WB~~1:1000

IHC-P~~N/A

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

BMP5 Antibody - 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:11580864, PubMed:29321139). Initiates the canonical BMP signaling cascade by associating with type I receptor BMPRI1A and type II receptor BMPRI2 (PubMed:11580864). In turn, BMPRI1A propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target

genes (PubMed:11580864, PubMed:29321139). Can also signal through non-canonical pathway such as MAPK p38 signaling cascade to promote chondrogenic differentiation (PubMed:20402566). Promotes the expression of HAMP, this is repressed by its interaction with ERFE (PubMed:30097509).

Cellular Location

Secreted.

Tissue Location

Expressed in the lung and liver.

BMP5 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BMP5 Antibody - Images**BMP5 Antibody - Background**

Induces cartilage and bone formation.

BMP5 Antibody - References

Celeste A.J.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:9843-9847(1990).
Mungall A.J.,et al.Nature 425:805-811(2003).