

BMP-5 Polyclonal Antibody
Catalog # AP68684**Specification****BMP-5 Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	P22003
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

BMP-5 Polyclonal Antibody - Additional Information**Gene ID** 653**Other Names**

BMP5; Bone morphogenetic protein 5; BMP-5

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

BMP-5 Polyclonal 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.

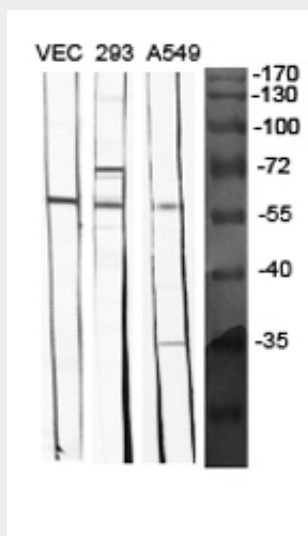
Tissue Location

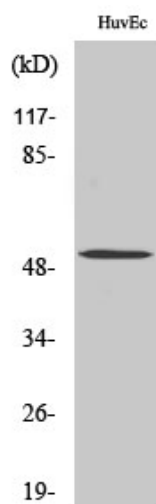
Expressed in the lung and liver.

BMP-5 Polyclonal 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](#)

BMP-5 Polyclonal Antibody - Images



BMP-5 Polyclonal Antibody - Background

Induces cartilage and bone formation.