

**BMP-6 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV11042****Specification**

---

**BMP-6 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P22004</a>
Other Accession	<a href="#">NP_001709</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	57226

**BMP-6 Antibody - Additional Information****Gene ID** 654**Application & Usage**

**Western blotting (0.5-4 µg/ml). However, the optimal conditions should be determined individually. Recombinant human BMP-6 can be used as a positive control.**

**Other Names**

BMP6, BMP-6, BMP 6, bone morphogenetic protein 6

**Target/Specificity**

BMP-6

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) antigen affinity purified rabbit anti-BMP-6 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% Thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

BMP-6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## **BMP-6 Antibody - Protein Information**

**Name** BMP6

**Synonyms** VGR

### **Function**

Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes including cartilage and bone formation (PubMed:<a href="http://www.uniprot.org/citations/31019025" target="\_blank">31019025</a>). Also plays an important role in the regulation of HAMP/hepcidin expression and iron metabolism by acting as a ligand for hemojuvelin/HJV (PubMed:<a href="http://www.uniprot.org/citations/26582087" target="\_blank">26582087</a>). Also acts to promote expression of HAMP, potentially via the interaction with its receptor BMPRI1/ALK3 (PubMed:<a href="http://www.uniprot.org/citations/30097509" target="\_blank">30097509</a>, PubMed:<a href="http://www.uniprot.org/citations/31800957" target="\_blank">31800957</a>). Initiates the canonical BMP signaling cascade by associating with type I receptor ACVR1 and type II receptor ACVR2B (PubMed:<a href="http://www.uniprot.org/citations/18070108" target="\_blank">18070108</a>). In turn, ACVR1 propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target. Can also signal through non-canonical pathway such as TAZ-Hippo signaling cascade to modulate VEGF signaling by regulating VEGFR2 expression (PubMed:<a href="http://www.uniprot.org/citations/33021694" target="\_blank">33021694</a>).

### **Cellular Location**

Secreted.

## **BMP-6 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-6 Antibody - Images**

## **BMP-6 Antibody - Background**

BMPs (bone morphogenetic proteins) belong to the TGF-beta superfamily of structurally related signaling proteins. Members of this superfamily are widely represented throughout the animal kingdom and have been implicated in a variety of developmental processes. Proteins of the TGF-beta superfamily are disulfide-linked dimers composed of two 15 kDa polypeptide chains. As implied by their name, BMPs initiate, promote and regulate bone development, growth, remodeling and repair. BMP-6 has been indicated to induce cartilage formation.