

**Anti-BMP6 Picoband Antibody**  
Catalog # ABO12376

**Specification**

**Anti-BMP6 Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P22004</a>
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Bone morphogenetic protein 6(BMP6) detection. Tested with WB, ELISA in Human.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-BMP6 Picoband Antibody - Additional Information**

**Gene ID** 654

**Other Names**

Bone morphogenetic protein 6, BMP-6, VG-1-related protein, VG-1-R, VGR-1, BMP6, VGR

**Calculated MW**

57226 MW KDa

**Application Details**

ELISA , 0.1-0.5 µg/ml, Human, -<br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Secreted .

**Protein Name**

Bone morphogenetic protein 6

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human BMP6 (383-419aa QSRNRSTQSQDVARVSSASDYNSSELKTACRKHELYV), different from the related mouse sequence by six amino acids, and from the related rat sequence by three amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

**At -20°C for one year. After r°Constitution, 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.**

## Anti-BMP6 Picoband 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 BMPR1A/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

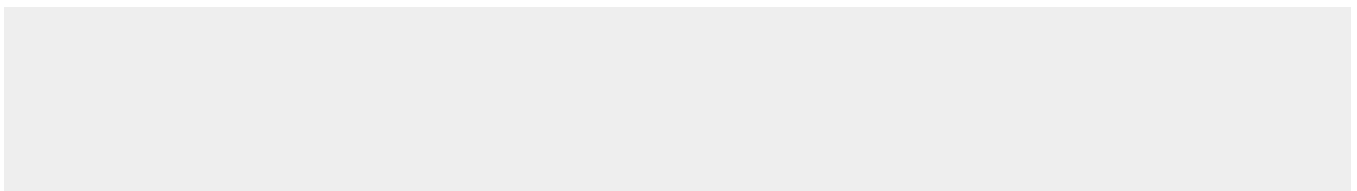
Secreted.

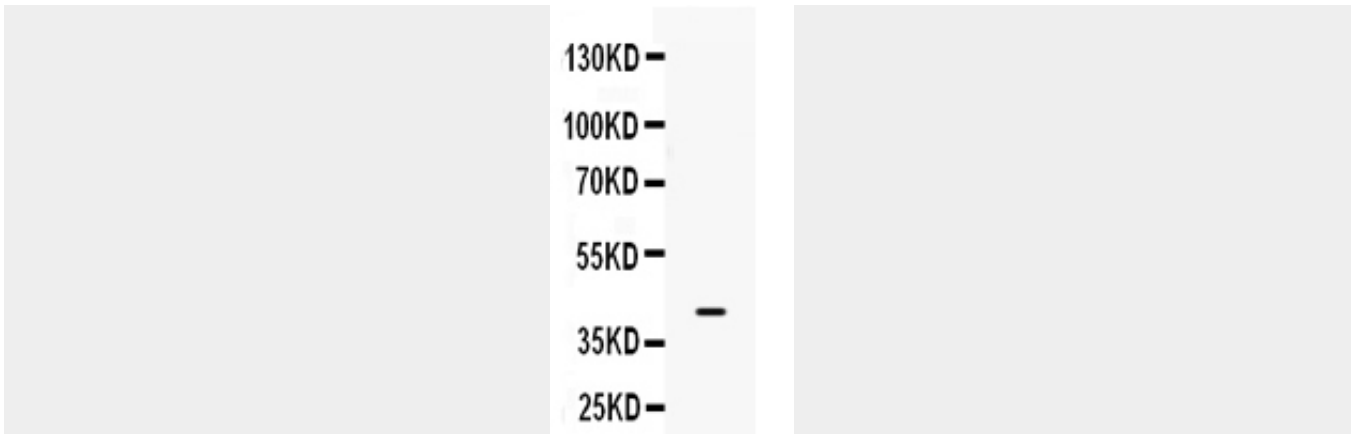
## Anti-BMP6 Picoband Antibody - Protocols

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](#)

## Anti-BMP6 Picoband Antibody - Images





Anti- BMP6 Picoband antibody, PBB9690, Western blotting All lanes: Anti BMP6 (ABO12376) at 0.5ug/ml WB: HELA Whole Cell Lysate at 40ug Predicted bind size: 57KD Observed bind size: 43KD

### **Anti-BMP6 Picoband Antibody - Background**

Bone morphogenetic protein 6 is a protein that in humans is encoded by the BMP6 gene. It is mapped to 6p24-p23. The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has led to speculation of possible bone inductive activity.