

Anti-BMP6 Picoband Antibody

Catalog # ABO12376

Specification

Anti-BMP6 Picoband Antibody - Product Information

ApplicationWB, EPrimary AccessionP22004HostRabbitReactivityHumanClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Bone morphogenetic protein 6(BMP6) detection. Tested withWB, 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, -
Western blot, 0.1-0.5 μg/ml, Human

Subcellular Localization Secreted .

Protein Name Bone morphogenetic protein 6

Contents Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

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:31019025). Also plays an important role in the regulation of HAMP/hepcidin expression and iron metabolism by acting as a ligand for hemojuvelin/HJV (PubMed:26582087). Also acts to promote expression of HAMP, potentially via the interaction with its receptor BMPR1A/ALK3 (PubMed:30097509, PubMed:31800957). 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). 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:33021694).

Cellular Location Secreted.

Anti-BMP6 Picoband Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Anti-BMP6 Picoband Antibody - Images



130KD -100KD -70KD -55KD -35KD -25KD -

Anti- BMP6 Picoband antibody, PBB9690, Western blottingAll lanes: Anti BMP6 (ABO12376) at 0.5ug/mlWB: HELA Whole Cell Lysate at 40ugPredicted bind size: 57KDObserved bind size: 43KD Anti-BMP6 Picoband Antibody - Background

Bone morphogenetic protein 6Å is aÅ proteinÅ that in humans is encoded by theÅ BMP6Å 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 lead to speculation of possible bone inductive activity.