

BMP-3 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV11006**Specification**

BMP-3 Antibody - Product Information

Application	WB
Primary Accession	P12645
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	53372

BMP-3 Antibody - Additional Information**Gene ID** 651

Positive Control	Recombinant human BMP-3
Application & Usage	The antibody can be used in Western Blot analysis (0.5-4 µg/ml).

Other Names

Bone morphogenetic protein 3, BMP-3, Bone morphogenetic protein 3A, BMP-3A, Osteogenin

Target/Specificity

BMP-3

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-human BMP-3 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

BMP-3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

BMP-3 Antibody - Protein Information

Name BMP3

Synonyms BMP3A

Function

Growth factor of the TGF-beta superfamily that plays an essential role in developmental process by inducing and patterning early skeletal formation and by negatively regulating bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentiation and ossification (PubMed: [11138004](http://www.uniprot.org/citations/11138004), PubMed: [15269709](http://www.uniprot.org/citations/15269709)). Initiates signaling cascades by associating with type II receptor ACVR2B to activate SMAD2-dependent and SMAD-independent signaling cascades including TAK1 and JNK pathways (PubMed: [31665064](http://www.uniprot.org/citations/31665064)).

Cellular Location

Secreted.

Tissue Location

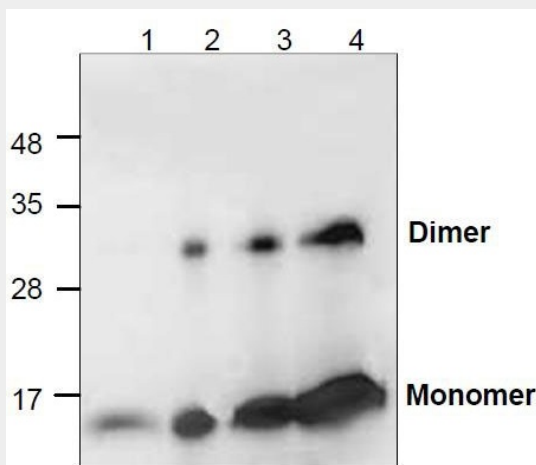
Expressed in adult and fetal cartilage.

BMP-3 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-3 Antibody - Images



Western blot analysis using recombinant human BMP-3. Lane 1: 50 ng; Lane2: 100 ng; Lane 3: 200 ng; Lane 4: 500 ng

BMP-3 Antibody - Background

BMPs (bone morphogenetic proteins) belong to the TGF- β superfamily of structurally related signaling proteins. As implied by their name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. Recombinant human BMP-3 is a 31.6 kDa homodimeric protein consisting of two 134 amino acid polypeptide chains.