

**BMP-3 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV11038****Specification**

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**BMP-3 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P12645</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |
| Calculated MW     | 53372                  |

**BMP-3 Antibody - Additional Information****Gene ID** 651**Application & Usage****The antibody can be used in Western Blot analysis (0.5-4 µg/ml).****Other Names**

BMP3, BMP-3, BMP 3, bone morphogenetic protein 3, Osteogenin; BMP-3A, BMP3A, BMP 3A

**Target/Specificity**

BMP-3

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified anti-BMP-3 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-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****BMP-3 Antibody - Background**

BMPs (bone morphogenetic proteins) belong to the TGF- $\beta$  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.