

**BMP-1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody**  
**Catalog # ABV11611****Specification**

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**BMP-1 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P13497</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	111249

**BMP-1 Polyclonal Antibody - Additional Information****Gene ID** 649**Other Names**

Bone morphogenetic protein 1, BMP-1, 3.4.24.19, Mammalian tolloid protein, mTld, Procollagen C-proteinase, PCP, BMP1, PCOLC

**Target/Specificity**

BMP-1

**Formulation**

100 µg (0.5 mg/ml) immunoaffinity purified rabbit anti-BMP-1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Background Descriptions****Precautions**

BMP-1 Polyclonal Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**BMP-1 Polyclonal Antibody - Protein Information****Name** BMP1**Synonyms** PCOLC**Function**

Metalloprotease that plays key roles in regulating the formation of the extracellular matrix (ECM) via processing of various precursor proteins into mature functional enzymes or structural proteins (PubMed:<a href="http://www.uniprot.org/citations/33206546" target="\_blank">33206546</a>).

Thereby participates in several developmental and physiological processes such as cartilage and bone formation, muscle growth and homeostasis, wound healing and tissue repair (PubMed:<a href="http://www.uniprot.org/citations/33169406" target="\_blank">33169406</a>, PubMed:<a href="http://www.uniprot.org/citations/32636307" target="\_blank">32636307</a>). Roles in ECM formation include cleavage of the C-terminal propeptides from procollagens such as procollagen I, II and III or the proteolytic activation of the enzyme lysyl oxidase LOX, necessary to formation of covalent cross- links in collagen and elastic fibers (PubMed:<a href="http://www.uniprot.org/citations/31152061" target="\_blank">31152061</a>, PubMed:<a href="http://www.uniprot.org/citations/33206546" target="\_blank">33206546</a>). Additional substrates include matricellular thrombospondin-1/THBS1 whose cleavage leads to cell adhesion disruption and TGF-beta activation (PubMed:<a href="http://www.uniprot.org/citations/32636307" target="\_blank">32636307</a>).

#### **Cellular Location**

Golgi apparatus, trans-Golgi network. Secreted, extracellular space, extracellular matrix. Secreted. Note=Co-localizes with POSTN in the Golgi.

#### **Tissue Location**

Ubiquitous.

### **BMP-1 Polyclonal 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-1 Polyclonal Antibody - Images**

### **BMP-1 Polyclonal Antibody - Background**

BMP-1 is an extracellular zinc endopeptidase of the Astacin family. Defects in BMP-1 are thought to lead to aberrant collagen processing and connective tissue disorders. Many forms of BMP-1 have been reported, with varying truncation at the carboxyterminal end. The long form of BMP-1 is most similar to the Tolloid-like proteins, which have extra EGF-like and CUB domains.