

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

BMP-1 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	P13497
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:33206546).

Thereby participates in several developmental and physiological processes such as cartilage and bone formation, muscle growth and homeostasis, wound healing and tissue repair (PubMed:33169406, PubMed:32636307). 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:31152061, PubMed:33206546). Additional substrates include matricellular thrombospondin-1/THBS1 whose cleavage leads to cell adhesion disruption and TGF-beta activation (PubMed:32636307).

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.