

**Goat Anti-BMP1 Antibody (internal region)**  
**Purified Goat Polyclonal Antibody**  
**Catalog # AF4210a**

**Specification**

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**Goat Anti-BMP1 Antibody (internal region) - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P13497</a>
Other Accession	<a href="#">12153(mouse)</a> , <a href="#">83470(rat)</a> , <a href="#">NP_001190.1</a> , <a href="#">NP_006120.1</a>
Reactivity	<b>Human</b>
Predicted	<b>Human, Mouse, Rat, Pig, Dog</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Concentration	<b>0.5</b>
Calculated MW	<b>111249</b>

**Goat Anti-BMP1 Antibody (internal region) - Additional Information**

**Gene ID** 649

**Other Names**

BMP1; bone morphogenetic protein 1; OI13; PCOLC; PCP; PCP2; TLD; mammalian tolloid protein; procollagen C-endopeptidase; procollagen C-proteinase

**Format**

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

**Immunogen**

Peptide with sequence C-DTIVPKYEVNGVK, from the internal region of the protein sequence according to NP\_001190.1; NP\_006120.1.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-BMP1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-BMP1 Antibody (internal region) - 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/32636307" target="\_blank">32636307</a>, PubMed:<a href="http://www.uniprot.org/citations/33169406" target="\_blank">33169406</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.

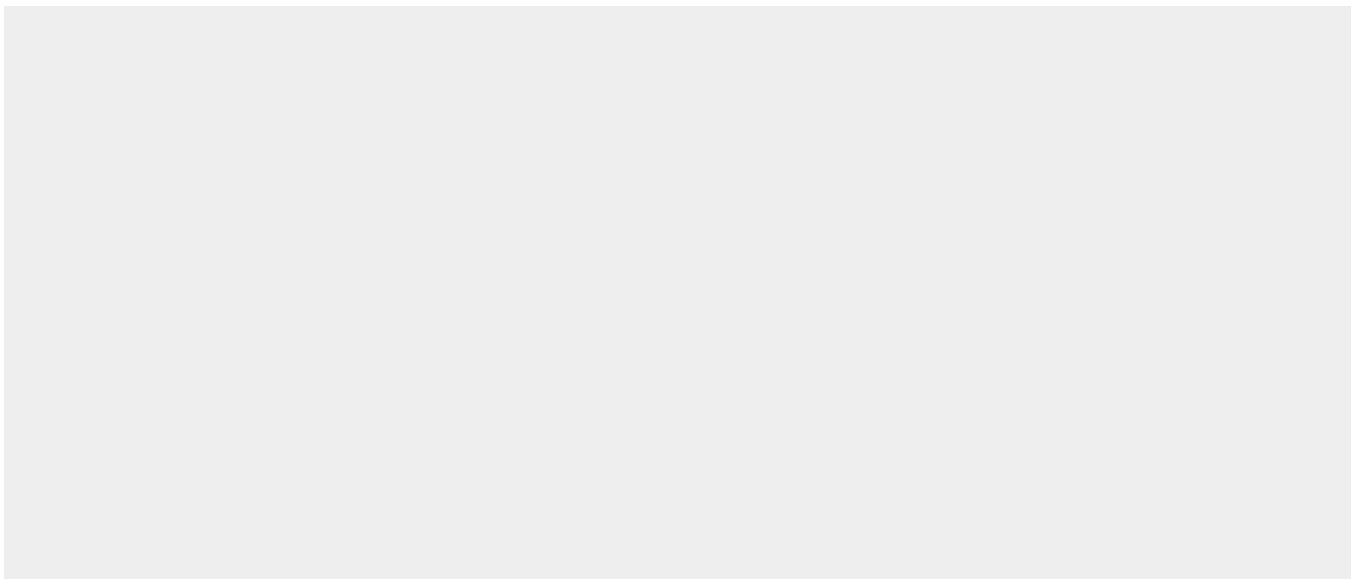
**Tissue Location**

Ubiquitous.

**Goat Anti-BMP1 Antibody (internal region) - 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](#)

**Goat Anti-BMP1 Antibody (internal region) - Images**



AF4210a (1  $\mu\text{g/ml}$ ) staining of Human Heart (A) and Kidney (B) lysates (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Goat Anti-BMP1 Antibody (internal region) - References**

The protease domain of procollagen C-proteinase (BMP1) lacks substrate selectivity, which is conferred by non-proteolytic domains. Wermter C, Höwel M, Hintze V, Bombosch B, Aufenvenne K, Yiallourous I, Stöcker W. *Biological chemistry* 2007 May 388 (5): 513-21.