

**Anti-BMP1 Antibody**  
Rabbit polyclonal antibody to BMP1  
Catalog # AP61372

**Specification**

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**Anti-BMP1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P13497</a>
Other Accession	<a href="#">P98063</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	111249

**Anti-BMP1 Antibody - Additional Information**

**Gene ID** 649

**Other Names**

PCOLC; Bone morphogenetic protein 1; BMP-1; Mammalian tolloid protein; mTld; Procollagen C-proteinase; PCP

**Target/Specificity**

Recognizes endogenous levels of BMP1 protein.

**Dilution**

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200)

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

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

<http://www.uniprot.org/citations/33169406>). 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](http://www.uniprot.org/citations/31152061), PubMed:[33206546](http://www.uniprot.org/citations/33206546)). Additional substrates include matricellular thrombospondin-1/THBS1 whose cleavage leads to cell adhesion disruption and TGF-beta activation (PubMed:[32636307](http://www.uniprot.org/citations/32636307)).

#### Cellular Location

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

#### Tissue Location

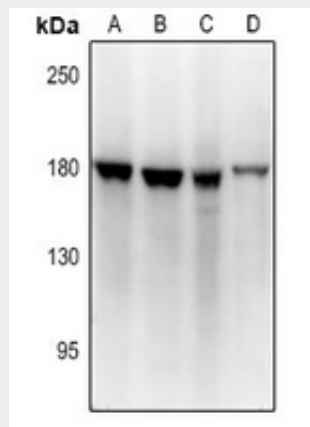
Ubiquitous.

### Anti-BMP1 Antibody - Protocols

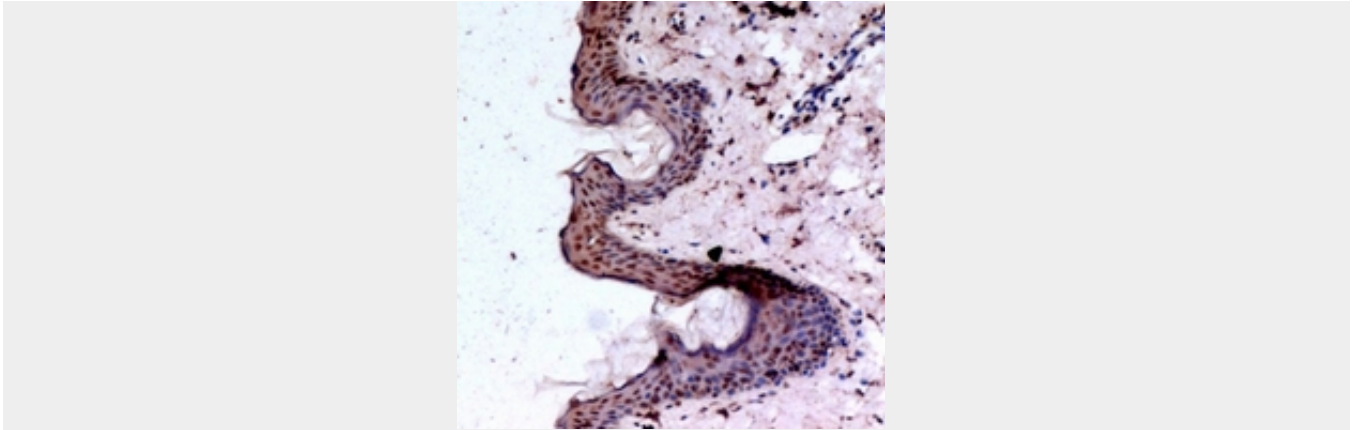
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Anti-BMP1 Antibody - Images



Western blot analysis of BMP1 expression in H9C2 (A), MEF (B), HEK293T (C), A549 (D) whole cell lysates.



Immunohistochemical analysis of BMP1 staining in human skin formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

#### **Anti-BMP1 Antibody - Background**

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human BMP1. The exact sequence is proprietary.