

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

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

Application	WB, E
Primary Accession	P13497
Other Accession	12153(mouse) , 83470(rat) , NP_001190.1 , NP_006120.1
Reactivity	Human
Predicted	Human, Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	111249

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

Dilution

WB~~1:1000

E~~N/A

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: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:32636307, PubMed: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, 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.

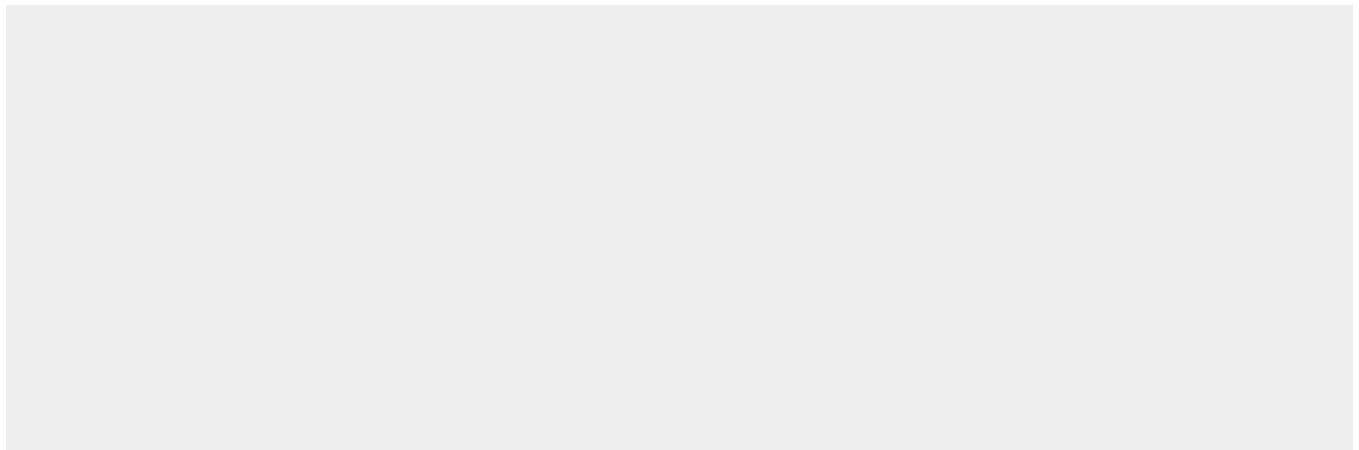
Tissue Location

Ubiquitous.

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 µg/ml) staining of Human Heart (A) and Kidney (B) lysates (35 µg 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.