

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

Specification

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

Application	WB
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

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 $\mu\text{g/ml}$) 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.