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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 Cytomety
- Cell Culture

Goat Anti-BMP1 Antibody (internal region) - Images

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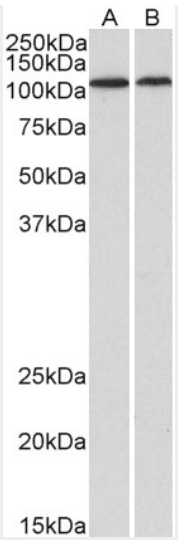

AF4210a (1 µg/ml) staining of Human Heart (A) and Kidney (B) lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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, Yiallouros I, Stöcker W. Biological chemistry 2007 May 388 (5): 513-21.