



20150122ML

Anti-Human BMP-1 (#11B23)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	101-M231
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant protein of Bone Morphogenetic Protein 1 (BMP-1), also known as Procollagen C-proteinase (PCP).

Target Background

Synonyms (Target):	BMP1; PCP; TLD; PCP2; PCOLC
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Bone morphogenetic protein 1 (BMP1), also known as procollagen Cproteinase (PCP), is a zinc protease of the astacin family. BMP1/PCP plays a key role in formation of extracellular matrix (ECM) by converting precursor proteins into their mature and functional forms. The precursor proteins identified as substrates for BMP1/PCP include collagens, biglycan, laminin 5, dentin matrix protein1, and lysyl oxidase. There are six alternatively spliced forms known to be derived from the BMP 1 gene, and isoform 1 consisting of residues 1 to 730 was expressed. The secreted and purified protein does not contain the signal peptide (amino acid residues 122) and pro domain (residues 23-120), but contain protease (residues 121-321), CUB I (residues 322-434), CUB II (residues 435-546), EGFlike (residues 547-588) and CUB III (residues 591-703) domains. The pro domain is apparently cleaved by a furinlike proprotein convertase. The purified BMP1/PCP is an active protease and its peptidase activity can be determined as described above. The purified BMP1/PCP is predicted to possess procollagen C proteinase activity because it contains the minimal domain structure required.

Database References Target

Protein RefSeq:	NP_001190.1
Uniprot ID:	P13497
mRNA RefSeq:	NM_001199.3

Product Specifications

Host	Rat
Reactivity against	Human
Clonality	Monoclonal Antibody
Clone	(#11B23)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	recombinant mouse BMP-1
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect human BMP-1 protein.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB

Recommended usage:

Western Blot: 1:200 - 1:1000

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!