BMP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	BMP1, Polyclonal Antibody
Full Product Name	BMP1 Antibody
Product Gene Name	anti-BMP1 antibody
Product Synonym Names	PCOLC; Bone morphogenetic protein 1; BMP-1; Mammalian tolloid protein; mTld; Procollagen C-proteinase; PCP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of BMP1 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	111,249 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (22022653..22069839). Location: 8p21.3
OMIM	112264
3D Structure	ModBase 3D Structure for P13497
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human BMP1. The exact sequence is proprietary.
Product Categories/Family for anti-BMP1 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-BMP1 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-BMP1 antibody	WB: 1:500-1:1000 IHC: 1:50-1:200
Related Product Information for anti-BMP1 antibody	MBS8583910 is an antibody targeting BMP1. Also known as BMP1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to BMP1
Other Notes	Small volumes of anti-BMP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMP1. It may not necessarily be applicable to this product.

NCBI GI #	5453579
NCBI GeneID	649

NCBI Accession #	NP_006120.1
UniProt Primary Accession #	P13497
UniProt Secondary Accession #	Q13292; Q13872; Q14874; Q99421; Q99422; Q99423; Q9UL38; A8K6F5; B2RN46; D3DSR0
UniProt Related Accession #	P13497
GenBank Nucleotide #	NM_006129.4
NCBI Official Full Name	bone morphogenetic protein 1 isoform 3
NCBI Official Synonym Full Names	bone morphogenetic protein 1
NCBI Official Symbol	BMP1
NCBI Official Synonym Symbols	PCP; TLD; OI13; PCP2; PCOLC
UniProt Protein Name	Bone morphogenetic protein 1
UniProt Synonym Protein Names	Mammalian tolloid protein; mTld; Procollagen C-proteinase
Protein Family	Bone morphogenetic protein
UniProt Gene Name	BMP1
UniProt Synonym Gene Names	PCOLC; BMP-1; mTld; PCP
UniProt Entry Name	BMP1_HUMAN
NCBI Protein Information	bone morphogenetic protein 1; procollagen C-proteinase; mammalian tolloid protein; procollagen C-endopeptidase
NCBI Summary for BMP1	This gene encodes a protein that is capable of inducing formation of cartilage in vivo. Although other bone morphogenetic proteins are members of the TGF-beta superfamily, this gene encodes a protein that is not closely related to other known growth factors. This gene is expressed as alternatively spliced variants that share an N-terminal protease domain but differ in their C-terminal region. [provided by RefSeq, Aug 2008]
UniProt Comments for BMP1	BMP1: Cleaves the C-terminal propeptides of procollagen I, II and III. Induces cartilage and bone formation. May participate in dorsoventral patterning during early development by cleaving chordin (CHRD). Defects in BMP1 are a cause of autosomal recessive osteogenesis imperfecta (AR-OI). A connective tissue disorder characterized by bone fragility, progressively deforming bones, bowing of limbs due to multiple fractures, very short stature, a triangular face, severe scoliosis, and grayish sclera. AR-OI due to BMP1 mutations belongs to the group of osteogenesis imperfecta type III in the Sillence classification. Belongs to the peptidase M12A family. 7 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.4.24.19; Cytokine; Protease Chromosomal Location of Human Ortholog: 8p21.3 Cellular Component: Golgi apparatus; proteinaceous extracellular matrix; extracellular space; extracellular region Molecular Function: peptidase activity; growth factor activity; metallopeptidase activity; zinc ion binding; metalloendopeptidase activity; cytokine activity; calcium ion binding Biological Process: extracellular matrix disassembly; extracellular matrix organization and biogenesis; ossification; multicellular organismal development; lipoprotein metabolic process; cell differentiation; proteolysis; skeletal development; cartilage condensation Disease: Osteogenesis Imperfecta, Type Xiii
Research Articles on BMP1	**1.** Excluding anterior cervical fusions, there are no significant differences between spinal fusion procedures with and without BMP-associated overall complications.
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