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Datasheet for ABIN873233 anti-BMP1 antibody

Image



Overview

Quantity:	100 µL
Target:	BMP1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMP1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human BMP1
lsotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	BMP1	
Alternative Name:	Bmp1 (BMP1 Products)	
Background:	Synonyms: BMP 1, BMP-1, Bone morphogenetic protein 1, Mammalian tolloid protein, mTld, PCOLC, PCP, ProCollagen C endopeptidase, Procollagen C proteinase, TLD, BMP1_HUMAN.	
	Background: Bone morphogenetic protein 1 (BMP1) was first identified in osteogenic extracts	
	of bone. It is an extracellular zinc endopeptidase, implicated in morphogenetic processes in a	

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	broad range of species. BMP1 is a member of the astacin family of metalloproteinases. The		
	astacin family includes BMP1, astacin, meprin A and B, tolloid-like proteins, and choriolysin.		
	BMP1 is involved in extracellular matrix (ECM) formation, suggesting that a functional link may		
	exist between astacin metalloproteinases, growth factors, and cell differentiation and pattern		
	formation during development. The name PCP reflects this enzyme's involvement in the		
	collagen deposition of growing bone. The enzymes known as the procollagen C and N		
	proteinases (PCP and PNP) are involved in the processing of fibrillar procollagen precursors to		
	mature collagens, which is an essential requirement for fibril formation. PCP cleaves the C-		
	terminus from procollagen, to allow the formation of mature, triplehelical collagen. The N-		
	terminus is cleaved by the procollagen N-proteinase (PNP or ADAM-TS2). Defects in PNP have		
	been linked to the skin disorder dermatosparaxis, and defects in BMP1 are thought to lead to		
	aberrant collagen processing, and connective tissue disorders. Many forms of BMP1 have been		
	reported, with varying truncation at the C-terminus. The long form of BMP1 is most similar to		
	the tolloid-like proteins, which have extra EGF-like and CUB domains.		
Gene ID:	649		
Pathways:	Lipid Metabolism		
Application Details			
Application Notes:	WB: (1:100-1000), IHC-P: (1:100-500), IF(IHC-P): (1:50-200)		
	Optimal working dilution should be determined by the investigator.		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1 µg/µL		
Buffer:	Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which		
	should be handled by trained staff only.		
Storage:	-20 °C		
Storage Comment:	Store at -20°C for 12 months.		

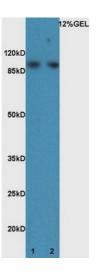
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Expiry Date:

12 months

Images



Western Blotting

Image 1. Lane 1:mouse brain lysate probed with Rabbit Anti-BMP1 Polyclonal Antibody, Unconjugated (ABIN873233) at 1:300 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:5000 for 90 min at 37 °C.