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BMP3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17009b

Product Information

Application	WB, E
Primary Accession	P12645
Other Accession	NP_001192.2
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36760
Calculated MW	53372
Antigen Region	318-347

Additional Information

Gene ID	651
Other Names	Bone morphogenetic protein 3, BMP-3, Bone morphogenetic protein 3A, BMP-3A, Osteogenin, BMP3, BMP3A
Target/Specificity	This BMP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 318-347 amino acids from the C-terminal region of human BMP3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	BMP3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	BMP3
Synonyms	BMP3A

Function	Growth factor of the TGF-beta superfamily that plays an essential role in developmental process by inducing and patterning early skeletal formation and by negatively regulating bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentiation and ossification (PubMed:11138004, PubMed:15269709). Initiates signaling cascades by associating with type II receptor ACVR2B to activate SMAD2-dependent and SMAD-independent signaling cascades including TAK1 and JNK pathways (PubMed:31665064).
Cellular Location	Secreted.
Tissue Location	Expressed in adult and fetal cartilage.

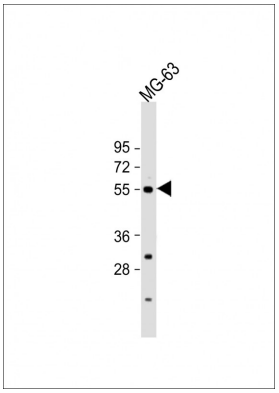
Background

BMP3 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein, also known as osteogenin, induces bone formation.

References

Stewart, A., et al. J. Cell. Physiol. 223(3):658-666(2010)
Chen, X.R., et al. World J. Gastroenterol. 16(11):1409-1413(2010)
Wu, D.D., et al. PLoS ONE 5 (6), E10959 (2010) :
Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009)
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Images



Anti-BMP3 Antibody (C-term) at 1:1000 dilution + MG-63 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.