Bmp3 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	Bmp3, Blocking Peptide
Full Product Name	Bmp3 Antibody (N-term) Blocking Peptide
Product Gene Name	BMP3 blocking peptide
Product Synonym Gene Name	BMP3A
Product Synonym Names	Bone morphogenetic protein 3; BMP-3; Bone morphogenetic protein 3A; BMP-3A; Osteogenin; BMP3; BMP3A
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human Bmp3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Bmp3 peptide (MBS9222317) is used for blocking the activity of Bmp3 antibody (MBS9213323)
Molecular Weight	53,372 Da
OMIM	112263
Cellular Location	Secreted.
Tissue Location	Expressed in adult and fetal cartilage.
Related Product Information for BMP3 blocking peptide	Negatively regulates bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentitation and ossification.
Other Notes	Small volumes of BMP3 blocking peptide 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.
Searchable Terms for BMP3 purchase	MBS9222317 is a blocking peptide targeting BMP3. Also known as Bmp3 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMP3. It may not necessarily be applicable to this product.

NCBI GI #	215273985
NCBI GeneID	651
NCBI Accession #	P12645.2
UniProt Primary Accession #	P12645
UniProt Secondary Accession #	Q4VAS5
UniProt Related Accession #	P12645
NCBI Official Full Name	Bone morphogenetic protein 3
NCBI Official Synonym Full Names	bone morphogenetic protein 3
NCBI Official Symbol	BMP3

NCBI Official Synonym Symbols	BMP-3A
UniProt Protein Name	Bone morphogenetic protein 3
UniProt Synonym Protein Names	Bone morphogenetic protein 3A; BMP-3A; Osteogenin
Protein Family	Bone morphogenetic protein
UniProt Gene Name	BMP3
UniProt Synonym Gene Names	BMP3A; BMP-3; BMP-3A
UniProt Entry Name	BMP3_HUMAN
NCBI Protein Information	bone morphogenetic protein 3
NCBI Summary for BMP3	BMP3 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein, also known as osteogenin, induces bone formation. [provided by RefSeq, Jul 2008]
UniProt Comments for BMP3	BMP3: Negatively regulates bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentitation and ossification. Belongs to the TGF-beta family. Protein type: Secreted, signal peptide; Cytokine; Secreted Chromosomal Location of Human Ortholog: 4q21 Cellular Component: extracellular space Molecular Function: cytokine activity; receptor binding; transforming growth factor beta receptor binding Biological Process: BMP signaling pathway; cell development; cell-cell signaling; regulation of apoptosis; regulation of MAPKKK cascade; skeletal development
Research Articles on BMP3	**1.** Methylation level in stool decreases dramatically following colorectal cancer resection
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