BMP7 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	BMP7, Monoclonal Antibody
Full Product Name	BMP7 (Bone Morphogenetic Protein 7, OP-1) (MaxLight 550)
Product Gene Name	anti-BMP7 antibody
Product Synonym Names	Bone Morphogenetic Protein 7; OP-1
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2D6
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified
Specificity	Recognizes BMP7.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	BMP7 (AAH08584, 1aa-431aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	MaxLight550
Product Categories/Family for anti-BMP7 antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-BMP7 antibody	FLISA, Western Blot (WB)
Application Notes for anti-BMP7 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-BMP7 antibody	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity. [provided by RefSeq]
Other Notes	Small volumes of anti-BMP7 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.
Searchable Terms for BMP7 purchase	MBS6216023 is an antibody targeting BMP7. Also known as BMP7 (Bone Morphogenetic Protein 7, OP-1) (MaxLight 550). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMP7. It may not necessarily be applicable to this product.

NCBI GI #	14250309

NCBI GeneID	655
NCBI Accession #	AAH08584
UniProt Related Accession #	P18075
NCBI Official Full Name	Bone morphogenetic protein 7
NCBI Official Synonym Full Names	bone morphogenetic protein 7
NCBI Official Symbol	BMP7
NCBI Official Synonym Symbols	OP-1
Protein Family	Bone morphogenetic protein
NCBI Protein Information	bone morphogenetic protein 7
NCBI Summary for BMP7	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone, kidney and brown adipose tissue development. Additionally, this protein induces ectopic bone formation and may promote fracture healing in human patients. [provided by RefSeq, Jul 2016]
Research Articles on BMP7	**1.** Compared to normal individuals, BMP7 expression was upregulated in patients with liver fibrosis and downregulated in patients with cirrhosis.
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