Bone Morphogenetic Protein 2 (BMP2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Bone Morphogenetic Protein 2 (BMP2), Polyclonal Antibody
Full Product Name	Cy3-Linked Polyclonal Antibody to Bone Morphogenetic Protein 2 (BMP2)
Product Gene Name	anti-BMP2 antibody
Product Synonym Names	BMP2A; BMP-2A; Hemochromatosis Modifier
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Human, Rat
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: BMP2 (MBS2004087) Cy3 Conjugated Antibody: BMP2 (MBS2035137)
Matching Pairs	Cy3 Conjugated Antibody: BMP2 (MBS2035137) Immunogen: BMP2 (MBS2012162)
Molecular Weight	44,702 Da
OMIM	M22489 mRNA
3D Structure	ModBase 3D Structure for P12643
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	BMP2 (Gln281~Arg394)
Conjugation	Cy3
Cross Reactivity	Human, Mouse, Rat
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2004087
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-BMP2 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-BMP2 antibody	MBS2035137 is an antibody targeting BMP2. Also known as Cy3-Linked Polyclonal Antibody to Bone Morphogenetic Protein 2 (BMP2). Reactive in Mouse, Human, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-BMP2 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 BMP2. It may not necessarily be applicable to this product.

NCBI GI #	4557369
NCBI GeneID	650
NCBI Accession #	NP_001191.1

UniProt Primary Accession #	P12643
UniProt Related Accession #	P12643
GenBank Nucleotide #	NM_001200.3
NCBI Official Full Name	bone morphogenetic protein 2 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 2
NCBI Official Symbol	BMP2
NCBI Official Synonym Symbols	BDA2; BMP2A
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Synonym Protein Names	Bone morphogenetic protein 2A; BMP-2A
Protein Family	Bone morphogenetic protein
UniProt Gene Name	BMP2
UniProt Synonym Gene Names	BMP2A; BMP-2; BMP-2A
NCBI Protein Information	bone morphogenetic protein 2
NCBI Summary for BMP2	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 and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients. [provided by RefSeq, Jul 2016]
UniProt Comments for BMP2	Induces cartilage and bone formation (PubMed:3201241). Stimulates the differentiation of myoblasts into osteoblasts via the EIF2AK3-EIF2A- ATF4 pathway. BMP2 activation of EIF2AK3 stimulates phosphorylation of EIF2A which leads to increased expression of ATF4 which plays a central role in osteoblast differentiation. In addition stimulates TMEM119, which upregulates the expression of ATF4 (PubMed:24362451).
Research Articles on BMP2	**1.** Spp24 can inhibit the growth of prostate cancer and its bone metastasis induced by BMP2; spp24 may have great potential to be a therapeutic agent in clinical situations
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