Bone Morphogenetic Protein 5 (BMP5) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Bone Morphogenetic Protein 5 (BMP5), Polyclonal Antibody
Full Product Name	HRP-Linked Polyclonal Antibody to Bone Morphogenetic Protein 5 (BMP5)
Product Gene Name	anti-BMP5 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse, Human, Rat
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: BMP5 (MBS2006025) HRP Conjugated Antibody: BMP5 (MBS2063082)
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Molecular Weight	47,670 Da
OMIM	M60314 mRNA
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	BMP5 (Ala315~His452)
Conjugation	HRP
Cross Reactivity	Human, Mouse
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2006025
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-BMP5 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-BMP5 antibody	MBS2063082 is an antibody targeting BMP5. Also known as HRP-Linked Polyclonal Antibody to Bone Morphogenetic Protein 5 (BMP5). Reactive in Mouse, Human, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-BMP5 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 BMP5. It may not necessarily be applicable to this product.

NCBI GI #	10835091
NCBI GeneID	653
NCBI Accession #	NP_066551.1
UniProt Secondary Accession #	Q9H547; Q9NTM5; B4E0Y4
UniProt Related Accession #	P22003

GenBank Nucleotide #	NM_021073.3
NCBI Official Full Name	bone morphogenetic protein 5 isoform 1 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 5
NCBI Official Symbol	BMP5
UniProt Protein Name	Bone morphogenetic protein 5
Protein Family	Bone morphogenetic protein
UniProt Gene Name	BMP5
UniProt Synonym Gene Names	BMP-5
NCBI Protein Information	bone morphogenetic protein 5
NCBI Summary for BMP5	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. Polymorphisms in this gene may be associated with osteoarthritis in human patients. This gene is differentially regulated in multiple human cancers. This gene encodes distinct protein isoforms that may be similarly proteolytically processed. [provided by RefSeq, Jul 2016]
UniProt Comments for BMP5	BMP5: Induces cartilage and bone formation. Belongs to the TGF-beta family. Protein type: Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 6p12.1 Cellular Component: extracellular space; vesicle Molecular Function: cytokine activity; transforming growth factor beta receptor binding Biological Process: BMP signaling pathway; cardiac muscle development; hindbrain development; negative regulation of aldosterone biosynthetic process; negative regulation of cell proliferation; negative regulation of insulin-like growth factor receptor signaling pathway; neural fold elevation formation; pharyngeal system development; positive regulation of epithelial cell proliferation; positive regulation of transcription from RNA polymerase II promoter; regulation of apoptosis; regulation of MAPKKK cascade
Research Articles on BMP5	**1.** findings suggested that BMP5 might be a potential prognostic biomarker or therapeutic target for patients with NSCLC
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