

BMP5 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2757a**Specification**

BMP5 Antibody (internal region) - Product Information

Application	E
Primary Accession	P22003
Other Accession	NP_066551.1 , 653
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	51737

BMP5 Antibody (internal region) - Additional Information**Gene ID** 653**Other Names**

Bone morphogenetic protein 5, BMP-5, BMP5

Dilution

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

BMP5 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

BMP5 Antibody (internal region) - Protein Information**Name** BMP5**Function**

Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes, including cartilage and bone formation or neurogenesis (PubMed:11580864, PubMed:29321139). Initiates the canonical BMP signaling cascade by associating with type I receptor BMPRI1A and type II receptor

BMPR2 (PubMed:11580864). In turn, BMPR1A propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target genes (PubMed:11580864, PubMed:29321139). Can also signal through non-canonical pathway such as MAPK p38 signaling cascade to promote chondrogenic differentiation (PubMed:20402566). Promotes the expression of HAMP, this is repressed by its interaction with ERFE (PubMed:30097509).

Cellular Location

Secreted.

Tissue Location

Expressed in the lung and liver.

BMP5 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BMP5 Antibody (internal region) - Images**BMP5 Antibody (internal region) - References**

Effect of bone morphogenetic proteins-4, -5 and -6 on DNA synthesis and expression of bone-related proteins in cultured human periodontal ligament cells. Xu WP, Shiba H, Mizuno N, Uchida Y, Mouri Y, Kawaguchi H, Kurihara H. Cell Biol Int. 2004;28(10):675-82. PMID: 15516325