

BMP7 Rabbit mAb
Catalog # AP77237**Specification**

BMP7 Rabbit mAb - Product Information

Application	WB
Primary Accession	P18075
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	49313

BMP7 Rabbit mAb - Additional Information

Gene ID 655

Other Names

BMP7

Dilution

WB~~1/500-1/1000

Format

Liquid

BMP7 Rabbit mAb - Protein Information

Name BMP7

Synonyms OP1

Function

Growth factor of the TGF-beta superfamily that plays important role in various biological processes, including embryogenesis, hematopoiesis, neurogenesis and skeletal morphogenesis (PubMed:31208997). Initiates the canonical BMP signaling cascade by associating with type I receptor ACVR1 and type II receptor ACVR2A (PubMed:12667445, PubMed:9748228). Once all three components are bound together in a complex at the cell surface, ACVR2A phosphorylates and activates ACVR1. In turn, ACVR1 propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target genes (PubMed:12478285). For specific functions such as growth cone collapse in developing spinal neurons and chemotaxis of monocytes, uses also BMPR2 as type II receptor (PubMed:31208997). Can also signal through non-canonical pathways such as P38 MAP kinase signaling cascade that promotes brown adipocyte differentiation through activation of target genes, including members of the SOX family of transcription factors (PubMed:<a

<http://www.uniprot.org/citations/27923061> target="_blank">27923061). Promotes the expression of HAMP, this is repressed by its interaction with ERFE (PubMed:http://www.uniprot.org/citations/30097509 target="_blank">30097509).

Cellular Location

Secreted.

Tissue Location

Expressed in the kidney and bladder. Lower levels seen in the brain

BMP7 Rabbit mAb - 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](#)

BMP7 Rabbit mAb - Images

