

Bmp7 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10346

Specification

Bmp7 antibody - N-terminal region - Product Information

Application	WB, IHC
Primary Accession	P18075
Other Accession	NM_001191856 , BAA31853
Reactivity	Human, Mouse, Rat, Pig, Horse, Bovine, Dog
Predicted	Human, Mouse, Rat, Pig, Chicken, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16kDa KDa

Bmp7 antibody - N-terminal region - Additional Information

Gene ID 655

Alias Symbol BMP-7, Bmp7

Other Names

Bone morphogenetic protein 7, BMP-7, Osteogenic protein 1, OP-1, Eptotermin alfa, BMP7, OP1

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-Bmp7 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

Bmp7 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Bmp7 antibody - N-terminal region - 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).

[12667445](#), PubMed: <http://www.uniprot.org/citations/9748228> target="_blank">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: <http://www.uniprot.org/citations/12478285> target="_blank">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: <http://www.uniprot.org/citations/31208997> target="_blank">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: <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 antibody - N-terminal 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](#)