

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)

target="_blank">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:27923061). Promotes the expression of HAMP, this is repressed by its interaction with ERFE (PubMed: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](#)