

**Anti-BMP7 Rabbit Monoclonal Antibody**  
Catalog # ABO13528

**Specification**

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**Anti-BMP7 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IP
Primary Accession	<a href="#">P18075</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-BMP7 Rabbit Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat.

**Anti-BMP7 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 655

**Other Names**

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

**Calculated MW**

49313 MW KDa

**Application Details**

WB 1:500-1:2000<br>IP 1:50

**Subcellular Localization**

Secreted.

**Tissue Specificity**

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

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human BMP7

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

## Anti-BMP7 Rabbit Monoclonal Antibody - 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: <a href="http://www.uniprot.org/citations/31208997" target="\_blank">31208997</a>). Initiates the canonical BMP signaling cascade by associating with type I receptor ACVR1 and type II receptor ACVR2A (PubMed: <a href="http://www.uniprot.org/citations/12667445" target="\_blank">12667445</a>, PubMed: <a href="http://www.uniprot.org/citations/9748228" target="\_blank">9748228</a>). 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: <a href="http://www.uniprot.org/citations/12478285" target="\_blank">12478285</a>). For specific functions such as growth cone collapse in developing spinal neurons and chemotaxis of monocytes, also uses BMPR2 as type II receptor (PubMed: <a href="http://www.uniprot.org/citations/31208997" target="\_blank">31208997</a>). 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 href="http://www.uniprot.org/citations/27923061" target="\_blank">27923061</a>). Promotes the expression of HAMP, this is repressed by its interaction with ERFE (PubMed: <a href="http://www.uniprot.org/citations/30097509" target="\_blank">30097509</a>).

### Cellular Location

Secreted.

### Tissue Location

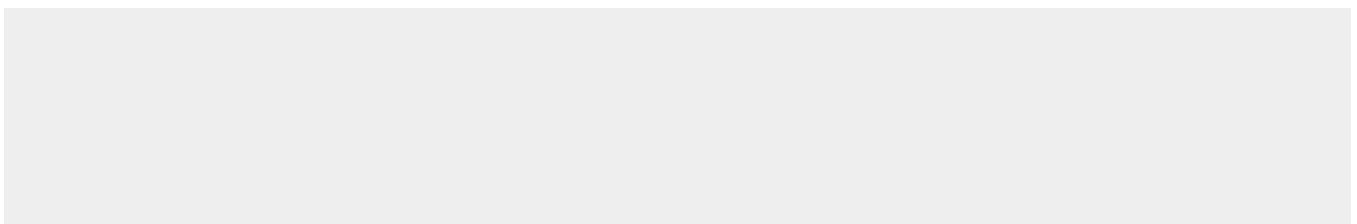
Expressed in the kidney and bladder. Lower levels seen in the brain

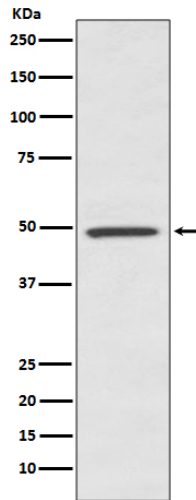
## Anti-BMP7 Rabbit Monoclonal Antibody - Protocols

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](#)

## Anti-BMP7 Rabbit Monoclonal Antibody - Images





Western blot analysis of BMP7 expression in human fetal kidney lysate.