**Product Name: BMP7 (2E15) Rabbit Monoclonal** 

**Antibody** 

Catalog #: AMRe07601



## **Summary**

Production Name BMP7 (2E15) Rabbit Monoclonal Antibody

**Description** Rabbit Monoclonal Antibody

Host Rabbit
Application WB,ELISA

**Reactivity** Human, Mouse, Rat

#### **Performance**

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type
Buffer	preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.
	Avoid freeze / thaw cycle.
Purification	Affinity purification

### **Immunogen**

Gene Name BMP7

Alternative Names Bmp7; Bone morphogenetic protein 7; Eptotermin alfa; OP 1; Osteogenic protein 1;

 Gene ID
 655.0

 SwissProt ID
 P18075.

# **Application**

**Dilution Ratio** WB 1:500-1:2000

Molecular Weight 49kDa

 **Product Name: BMP7 (2E15) Rabbit Monoclonal** 

**Antibody** 

Catalog #: AMRe07601

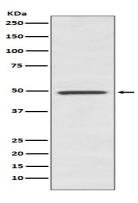


### **Background**

Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis. 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/9748228" target="\_blank">9748228</a>, PubMed:<a href="http://www.uniprot.org/citations/12667445" target="\_blank">12667445</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, uses also 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>/a>).

### Research Area

#### **Image Data**



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

#### Note

For research use only.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838