



## Rabbit Anti-BMP7 antibody

SL2242R

<b>Product Name:</b>	BMP7
<b>Chinese Name:</b>	骨形态发生蛋白7抗体
<b>Alias:</b>	bone morphogenetic protein 7 precursor; osteogenic protein 1; BMP-7; OP-1; BMP 7; Bone morphogenetic protein 7; Eptotermin alfa; OP 1; OP1; BMP7_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	15.7/47kDa
<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human BMP7:293-350/431
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity.

[provided by RefSeq].

**Function:**

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.

**Subunit:**

Homodimer; disulfide-linked. Interacts with SOSTDC1. Interacts with TWSG1.

**Subcellular Location:**

Secreted.

**Tissue Specificity:**

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

**Post-translational modifications:**

Several N-termini starting at positions 293, 300, 315 and 316 have been identified by direct sequencing resulting in secretion of different mature forms (PubMed:17977014).

**Similarity:**

Belongs to the TGF-beta family.

**SWISS:**

P18075

**Gene ID:**

655

**Database links:**

[Entrez Gene: 477270](#)Dog

[Entrez Gene: 655](#)Human

[Entrez Gene: 12162](#)Mouse

[Entrez Gene: 492315](#)Pig

[Entrez Gene: 85272](#)Rat

[Omim: 112267](#)Human

[SwissProt: P18075](#)Human

[SwissProt: P23359](#)Mouse

[Unigene: 473163](#)Human

[Unigene: 595](#)Mouse

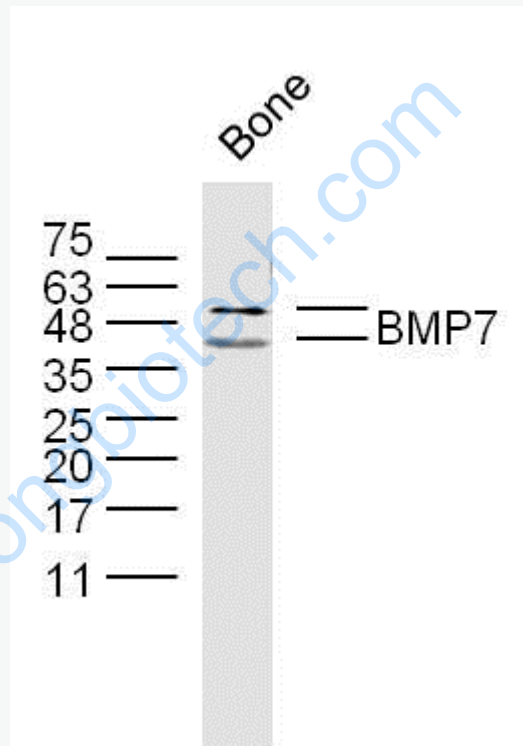
[Unigene: 18030Rat](#)

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

骨形态发生蛋白7(BMP-

7)是转化生长因子 $\beta$ 超家族成员,参与器官发生,细胞增殖、分化及凋亡等.



Picture:

Sample:

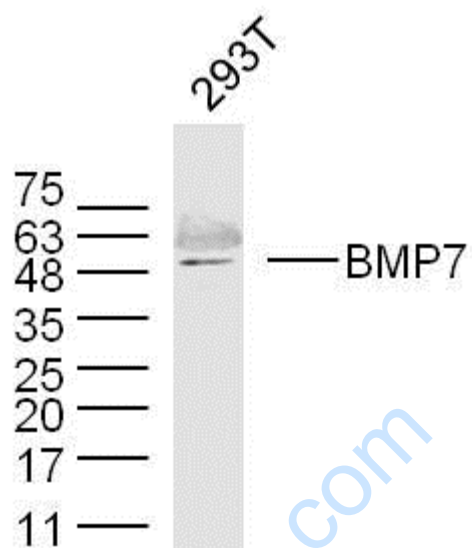
Bone (Mouse) Lysate at 40 ug

Primary: Anti-BMP7 (SL2242R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 15.7/47 kD

Observed band size: 47,50kD



Sample:

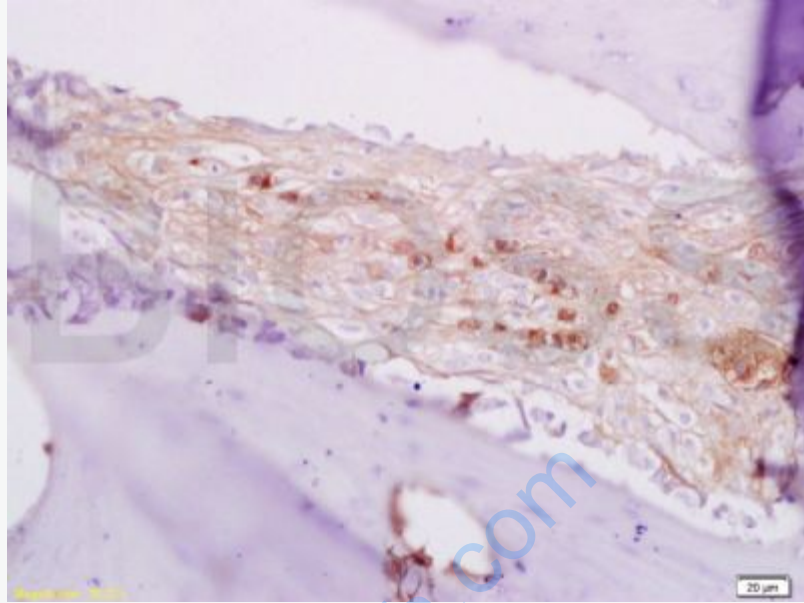
293T Cell (Human) Lysate at 30 ug

Primary: Anti-BMP7 (SL2242R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 15.7/47kD

Observed band size: 49/40 kD



Tissue/cell: rabbit alveolar bone; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-BMP7 Polyclonal Antibody, Unconjugated(SL2242R) 1:600, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining