SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-BMP7 antibody

Catalog Number: SL2242R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	BMP7
Immunogen:	KLH conjugated synthetic peptide derived from human BMP7: 293-350/431
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat,Rabbit(predicted:Chicken,Dog,Pig,Cow,Horse,Sheep)
Predicted MW.:	15.7/47kDa
Subcellular Location:	Secretory protein
Background:	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.

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

SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

	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. **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:** 18030 Rat Bone morphogenetic protein 7 (BMP-7) is a member of the transforming growth factor beta superfamily and is involved in organogenesis, cell proliferation, differentiation, and apoptosis.

[VALIDATION IMAGES]

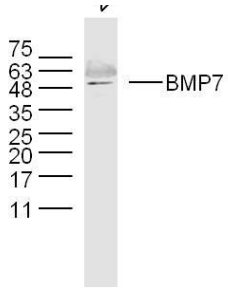


Figure 1. Sample: 293T Cell (Human) Lysate at 30 ug Primary: Anti-BMP7 (SL2242R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 15.7/47kD Observed band size: 47 kD

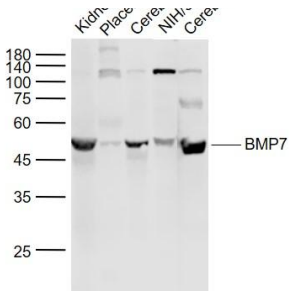


Figure 2. Sample: Lane 1: Kidney (Mouse) Lysate at 40 ug Lane 2: Placenta (Mouse) Lysate at 40 ug Lane 3: Cerebrum (Mouse) Lysate at 40 ug Lane 4: NIH/3T3 (Mouse) Cell Lysate at 30 ug Lane 5: Cerebrum (Rat) Lysate at 40 ug Primary: Anti-BMP7 (SL2242R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 15.7/47 kD Observed band size: 47 kD

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

SunLong Biotech Co.,LTD

Tel: 0086-571-56623320 Fax:0086-571-56623318

E-mail:sales@sunlongbiotech.com

www.sunlongbiotech.com

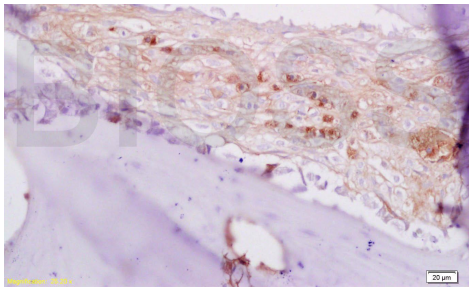


Figure 3. Tissue/cell: rabbit alveolar bone; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: 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

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