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

[Marker Primary Antibody]

Rabbit Anti-BMP7/AF594 Conjugated antibody

Catalog Number: SL2242R-AF594

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-BMP7/AF594
Immunogen:	KLH conjugated synthetic peptide derived from human BMP7
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 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)
Background:	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. **Subcellular Location:** Secreted. **Tissue Specificity:** Expressed in the kidney and bladder. Lower levels seen in

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	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 Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. Bone morphogenetic protein 7 (BMP-7) is a member of the transforming growth factorβsuperfamily and participates in organogenesis, cell proliferation, differentiation, and apoptosis, etc.