

Rabbit Anti-BMP7 antibody

SL10506R

Product Name BMP7

Chinese Name 骨形态发生蛋白 7 抗体

Alias bone morphogenetic protein 7 precursor; osteogenic protein 1; BMP-7; OP-1; BMP 7; Bone morphogenic protein 7; Eptotermin alfa; OP 1; OP1; BMP7_HUMAN.

Research Area Tumour Cell biology immunology Apoptosis Growth factors and hormones transcriptional regulatory factor

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, (predicted: Mouse, Rat,)

Applications 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.

Theoretical molecular weight 47kDa

Cellular localization Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human BMP7

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed [PubMed](#)

Product The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules

Detail

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 extraskelatal 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

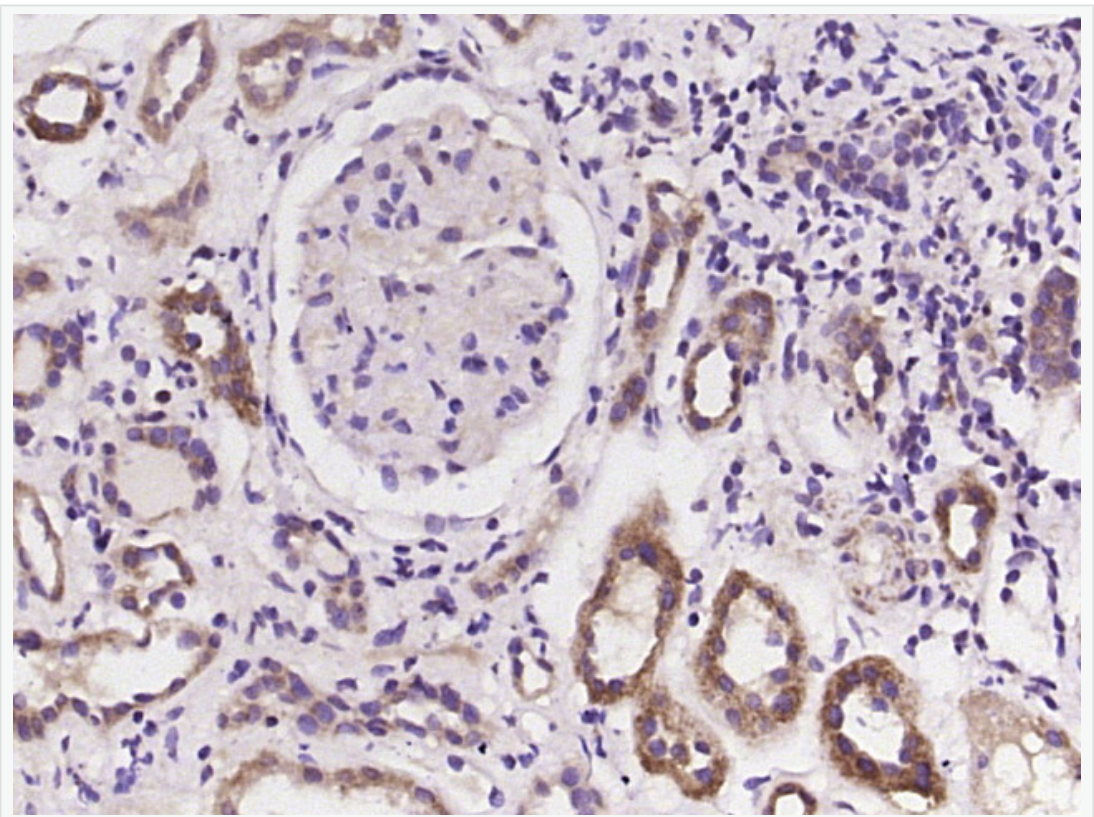
[Unigene: 473163](#) Human

[Unigene: 595](#) Mouse

[Unigene: 18030](#) Rat

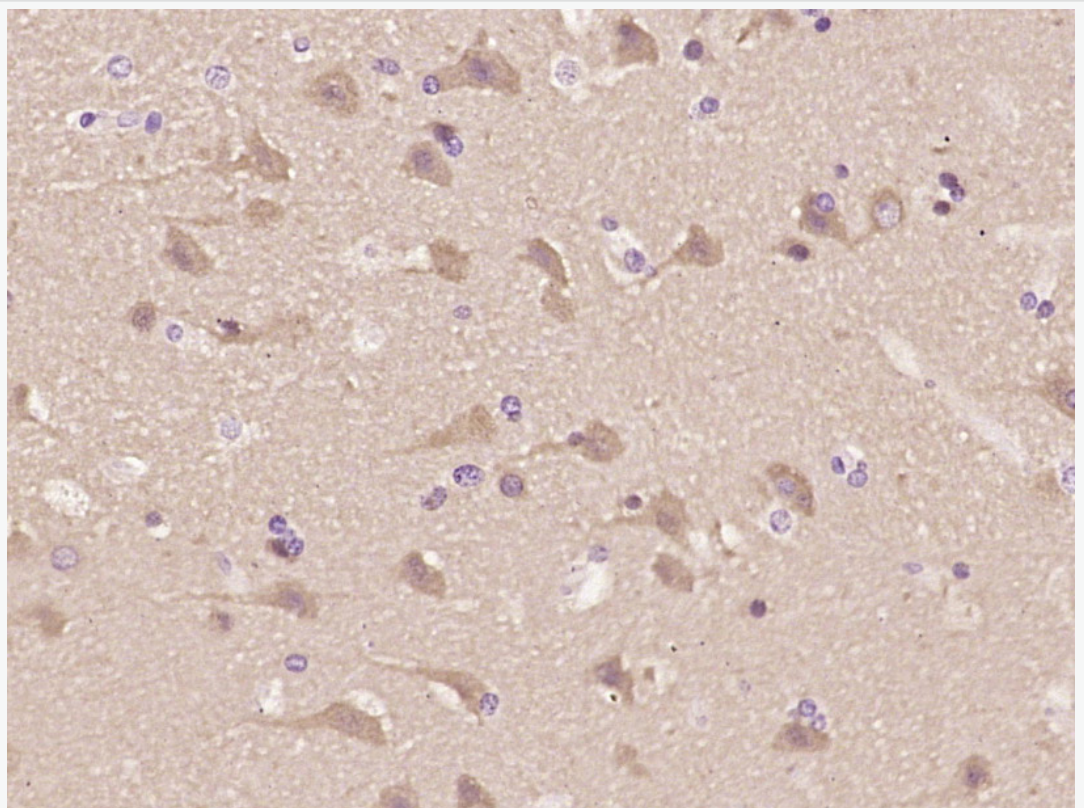
骨形态发生蛋白 7 (BMP-7) 是转化生长因子 β 超家族成员,参与器官发生,细胞增殖、分化及凋亡等.

**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (Human kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat

serum) at 37°C for 30min; Antibody incubation with (BMP7) Polyclonal Antibody, Unconjugated (SL10506R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (BMP7) Polyclonal Antibody, Unconjugated (SL10506R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



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