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**Product Name: BMP-7 Rabbit Polyclonal Antibody****Catalog #: APRab07602**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
<b>Molecular Weight</b>	55kDa

**Antigen Information**

<b>Gene Name</b>	BMP7
<b>Alternative Names</b>	BMP7; OP1; Bone morphogenetic protein 7; BMP-7; Osteogenic protein 1; OP-1; Eptotermin alfa
<b>Gene ID</b>	655.0
<b>SwissProt ID</b>	P18075
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human BMP-7. AA range:124-173

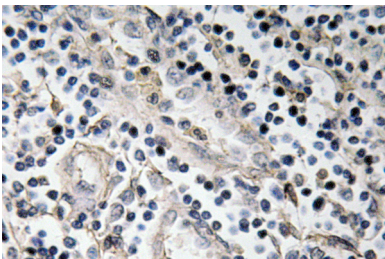
**Background**

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone, kidney and brown adipose tissue development. Additionally, this protein induces ectopic bone formation and may promote fracture healing in human patients. [provided by RefSeq, Jul 2016],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.,online information:Bone morphogenetic protein 7 entry,pharmaceutical:Available under the names Osigraft (Stryker). Its use is indicated in the treatment of tibial non-union of at least 9 month duration, secondary to trauma, in skeletally mature patients, in cases where autograft has failed or is unfeasible.,PTM: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.,subunit:Homodimer; disulfide-linked. Interacts with SOSTDC1. Interacts with TWSG1.,tissue specificity:Expressed in the kidneys and bladder. Lower levels seen in the brain.,

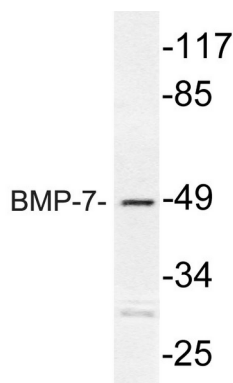
## Research Area

Cytokine-cytokine receptor interaction;Hedgehog;TGF-beta;

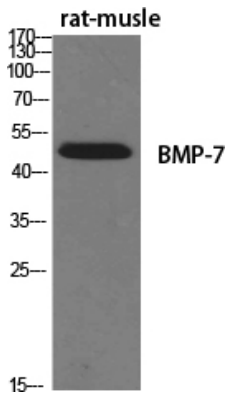
## Image Data



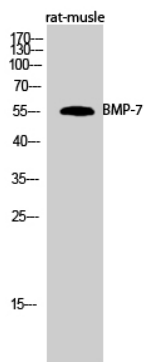
Immunohistochemistry analysis of BMP-7 antibody in paraffin-embedded human tonsil tissue.



Western blot analysis of lysate from Jurkat cells, using BMP-7 antibody.



Western Blot analysis of various cells using BMP-7 Polyclonal Antibody diluted at 1: 500



Western Blot analysis of rat-muscle cells using BMP-7 Polyclonal Antibody diluted at 1: 500