



# BMP-7 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-15880
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	BMP7
<b>Protein Name</b>	Bone morphogenetic protein 7
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human BMP-7. AA range:124-173
<b>Specificity</b>	BMP-7 Polyclonal Antibody detects endogenous levels of BMP-7 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	BMP7; OP1; Bone morphogenetic protein 7; BMP-7; Osteogenic protein 1; OP-1; Eptotermin alfa
<b>Observed Band</b>	55kD
<b>Cell Pathway</b>	Secreted.
<b>Tissue Specificity</b>	Expressed in the kidney and bladder. Lower levels seen in the brain.
<b>Function</b>	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.,

**Background**

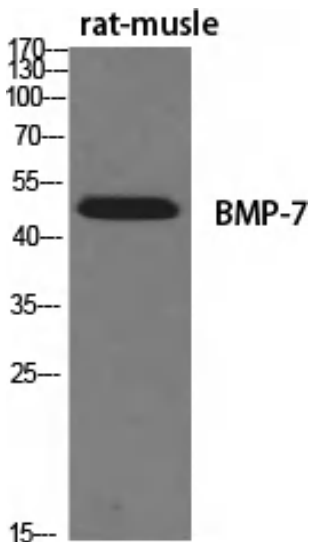
This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is 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],

**matters needing attention**

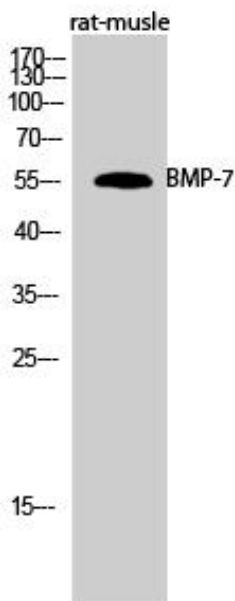
Avoid repeated freezing and thawing!

**Usage suggestions**

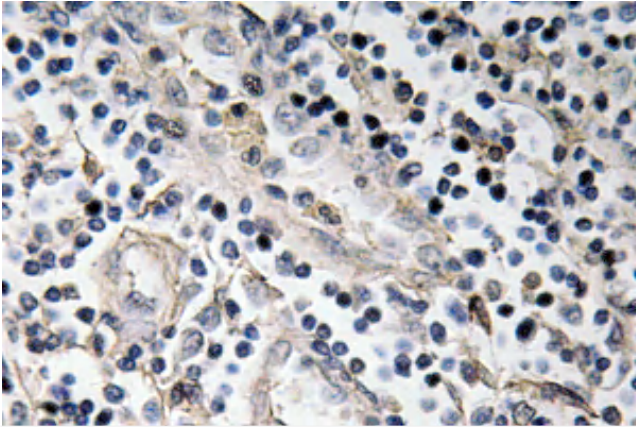
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**

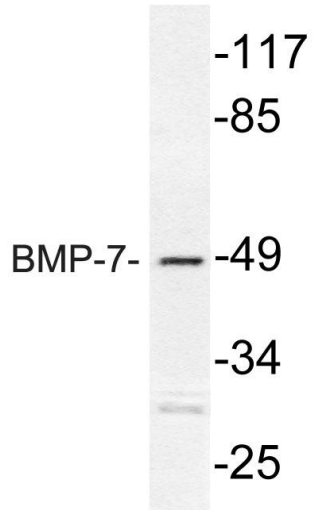
Western Blot analysis of various cells using BMP-7 Polyclonal Antibody diluted at 1:500



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



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



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