

BMP-7 Polyclonal Antibody

Catalog No :	YT0503
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	BMP-7
Fields :	>>Cytokine-cytokine receptor interaction;>>TGF-beta signaling pathway;>>Axon guidance;>>Hippo signaling pathway
Gene Name :	BMP7
Protein Name :	Bone morphogenetic protein 7
Human Gene Id :	655
Human Swiss Prot No :	P18075
Mouse Gene Id :	12162
Mouse Swiss Prot No :	P23359
Immunogen :	The antiserum was produced against synthesized peptide derived from human BMP-7. AA range:124-173
Specificity :	BMP-7 Polyclonal Antibody detects endogenous levels of BMP-7 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 55kD

Cell Pathway : Cytokine-cytokine receptor interaction;Hedgehog;TGF-beta;

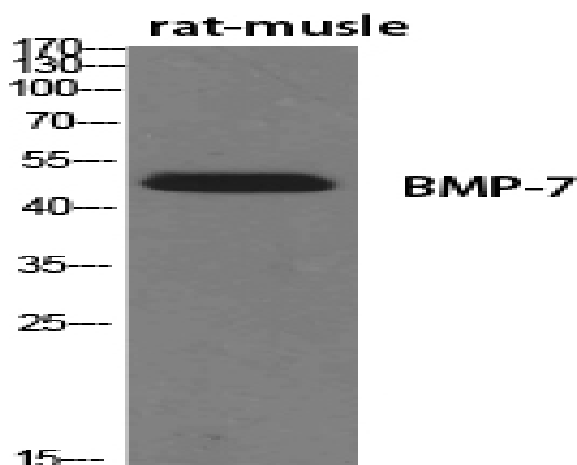
Background : This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein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

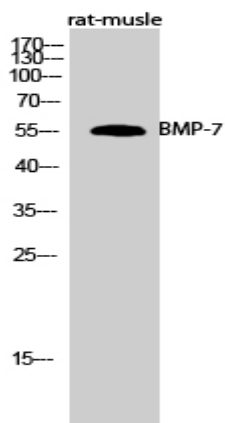
Subcellular Location : Secreted.

Expression : Expressed in the kidney and bladder. Lower levels seen in the brain.

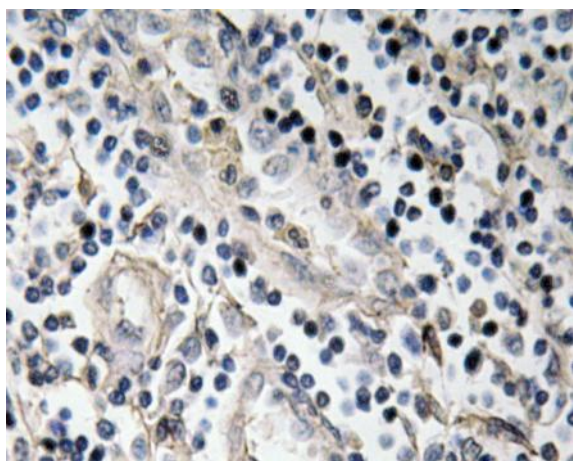
Products Images



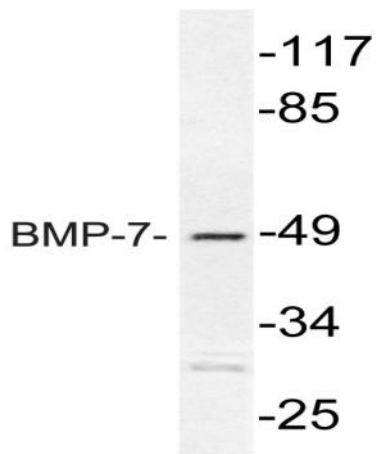
Western Blot analysis of various cells using BMP-7 Polyclonal Antibody diluted at 1:500



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.