

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



Summary

Production Name	BMP-7 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC, WB,
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

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

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000..
Molecular Weight	55kD

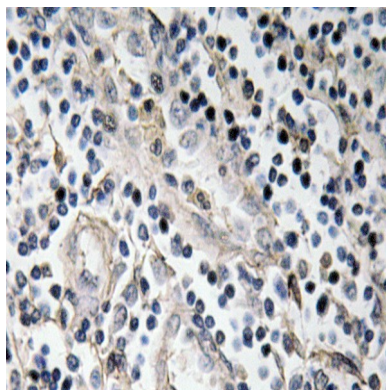
Background

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 Osgraft (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

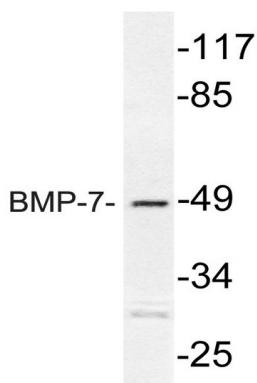
Cytokine-cytokine receptor interaction;Hedgehog;TGF-beta;

Image Data

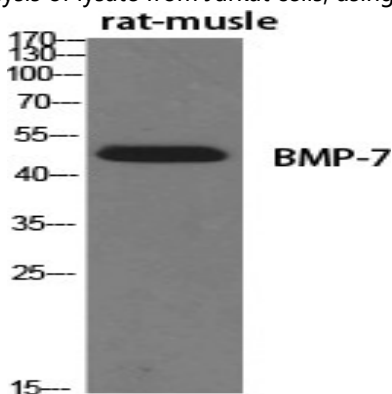


Immunohistochemistry analysis of BMP-7 antibody in paraffin-embedded human tonsil tissue.

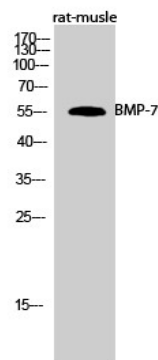
Product Name: BMP-7 Rabbit Polyclonal Antibody
Catalog #: APRab07602



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

Note

For research use only.