

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

P18075

P23359

Human Gene Id: 655

Human Swiss Prot

No:

Mouse Gene Id: 12162

Mouse Swiss Prot

No:

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

1/3



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 RefSeg, 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

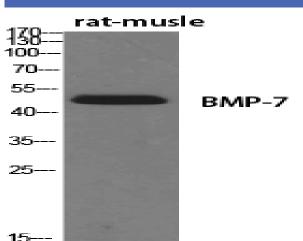
levels seen in the brain.,

Subcellular Location :

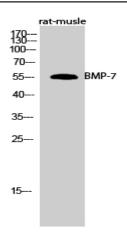
Secreted.

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

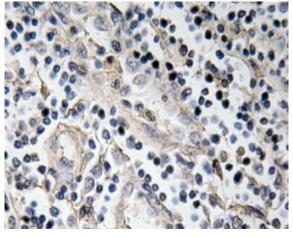
Products Images



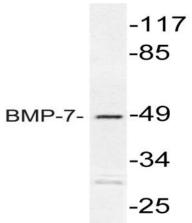
Western Blot analysis of various cells using BMP-7 Polyclonal Antibody diluted at 1:500



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



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



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