

BMP-2 Polyclonal Antibody

Catalog No :	YT0498
Reactivity :	Human;Mouse;Rat
Applications :	IF;WB;IHC;ELISA
Target :	BMP-2
Fields :	>>Cytokine-cytokine receptor interaction;>>TGF-beta signaling pathway;>>Hippo signaling pathway;>>Pathways in cancer;>>Basal cell carcinoma
Gene Name :	BMP2
Protein Name :	Bone morphogenetic protein 2
Human Gene Id :	650
Human Swiss Prot No :	P12643
Mouse Gene Id :	12156
Mouse Swiss Prot No :	P21274
Rat Gene Id :	29373
Rat Swiss Prot No :	P49001
Immunogen :	The antiserum was produced against synthesized peptide derived from human BMP-2. AA range:226-275
Specificity :	BMP-2 Polyclonal Antibody detects endogenous levels of BMP-2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IF 1:50-200 WB 1:500 - 1:2000. IHC: 1:100-1:300. ELISA: 1:10000. Not yet

tested in other applications.

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 : 60kD

Cell Pathway : Cytokine-cytokine receptor interaction;Hedgehog;TGF-beta;Pathways in cancer;Basal cell carcinoma;

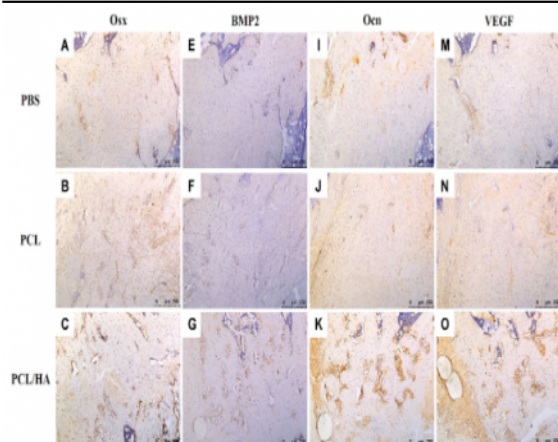
Background : This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients. [provided by RefSeq, Jul 2016],

Function : function:Induces cartilage and bone formation.,online information:Bone morphogenetic protein 2 entry,similarity:Belongs to the TGF-beta family.,subunit:Homodimer; disulfide-linked. Interacts with GREM2 (By similarity) and SOSTDC1.,tissue specificity:Particularly abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine.,

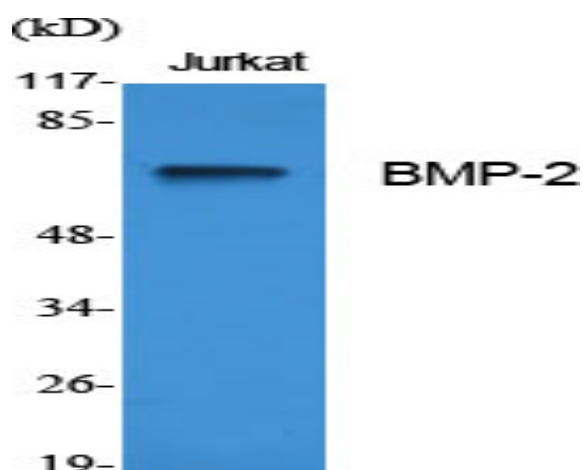
Subcellular Location : Secreted.

Expression : Particularly abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine.

Products Images



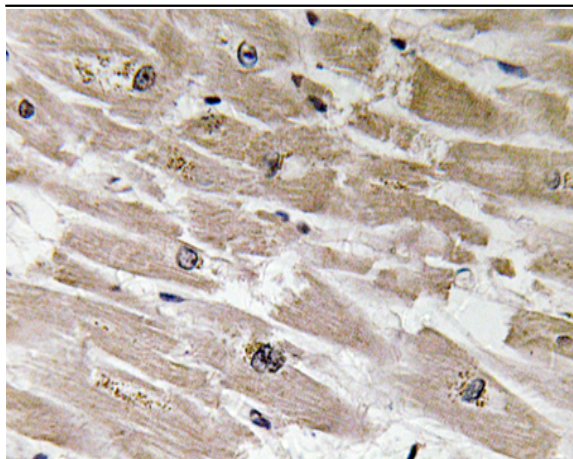
Wen, Gen, et al. "Functionalized polycaprolactone/hydroxyapatite composite microspheres for promoting bone consolidation in a rat distraction osteogenesis model." *Journal of Orthopaedic Research*® 38.5 (2020): 961-971.



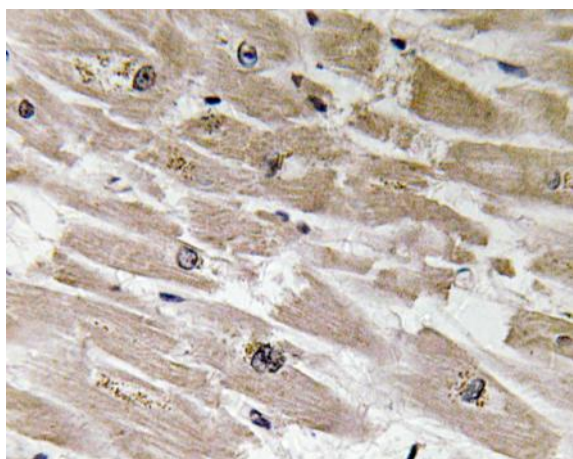
Western Blot analysis of various cells using BMP-2 Polyclonal Antibody diluted at 1:500



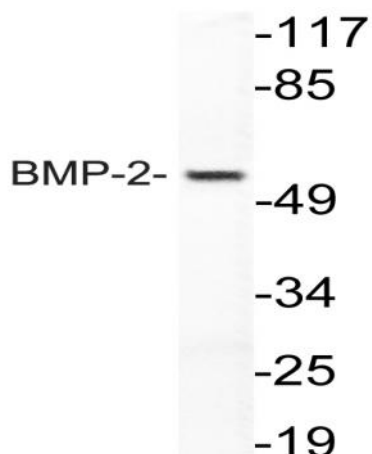
Western Blot analysis of HuvEc cells using BMP-2 Polyclonal Antibody diluted at 1:500



Immunohistochemistry of paraffin-embedded human heart tissue using antibody at dilution 1:100



Immunohistochemistry analysis of BMP-2 antibody in paraffin-embedded human heart tissue.



Western blot analysis of lysate from HUVEC cells, using BMP-2 antibody.