



BMP-2 Rabbit mAb

Catalog No	YP-rAb-17887
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	BMP2
Protein Name	Bone morphogenetic protein 2
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	BMP-2;Bone morphogenetic protein 2;BMP2 ; BMP2A ; Bone morphogenetic protein 2 ; BMP-2 ; Bone morphogenetic protein 2A ; BMP-2A;BMP2
Observed Band	30kD, 13kD
Calculated Molecular Weight	45kD, 13kD
Cell Pathway	Secreted
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.
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.,
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





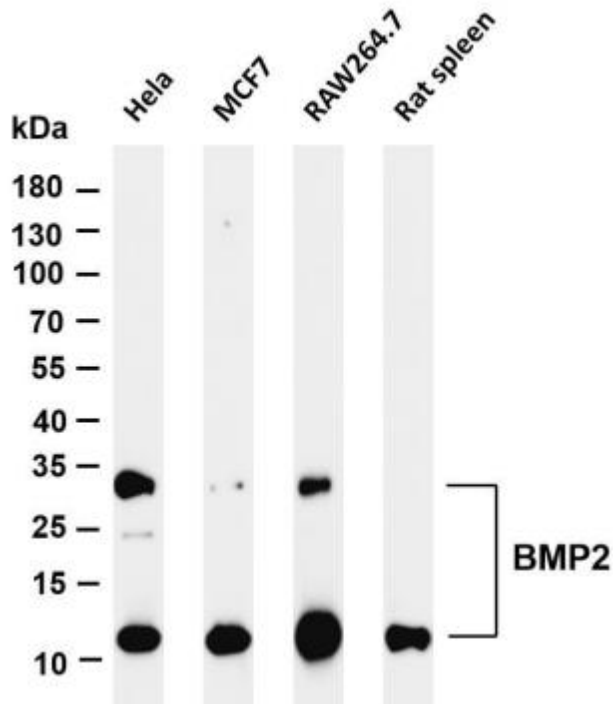
proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients . [provided by RefSeq, Jul 2016],

matters needing attention

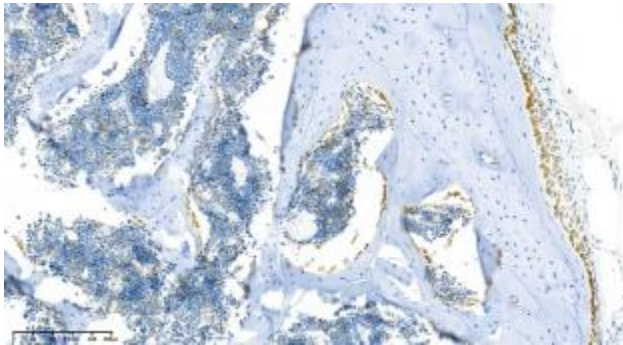
Avoid repeated freezing and thawing!

Usage suggestions

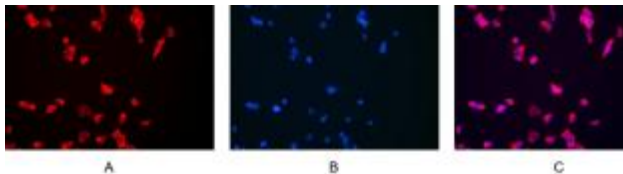
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



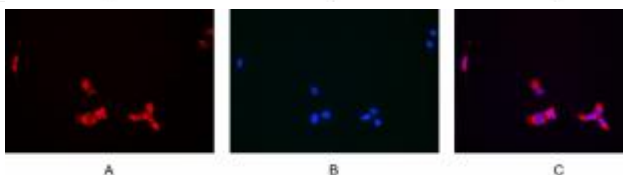
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-BMP2 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: MCF7 Lane 3: RAW264.7 Lane 4: Rat spleen Predicted band size: 45, 13kDa Observed band size: 30, 13kDa



Rat spine was stained with anti-BMP2 Rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: BMP2 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Immunofluorescence analysis of HEK293. Picture A: BMP2 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

