

Anti-BMP2 Rabbit pAb

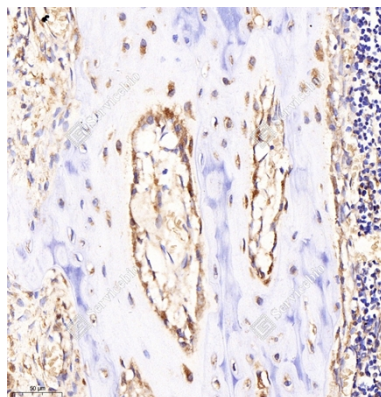


GB11252 -20°C

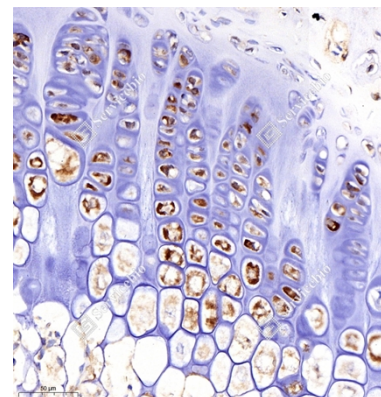
Product Information			
Protein full name	Bone morphogenetic protein 2		
Synonyms	BMP2, BDA2, BMP2A, bone morphogenetic protein 2		
Immunogen	KLH conjugated Synthetic peptide corresponding to Mouse BMP2		
Uniprot ID	P21274		
Isotype	IgG		
Purity	Affinity purification		
Subcellular location	Secreted		
Predicted MW./Observed MW.	45 kDa / 45 kDa		
Applications	Species	Dilution	Positive Tissue
WB	Human, Mouse, Rat	1: 500-1: 1000	liver, spleen, lung
IHC/IF	Human (predicted), Mouse, Rat	1: 200-1: 1000	bone
Storage			
Storage	Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
Storage Buffer	PBS with 0.15% ProClin300, 100 µg/mL BSA and 50% glycerol.		
background			
Induces cartilage and bone formation. Stimulates the differentiation of myoblasts into osteoblasts via the EIF2AK3-EIF2A- ATF4 pathway. BMP2 activation of EIF2AK3 stimulates phosphorylation of EIF2A which leads to increased expression of ATF4 which plays a central role in osteoblast differentiation. In addition stimulates TMEM119, which upregulates the expression of ATF4.			
Images			



WB analysis of BMP2(GB11252).
Sample: Protein treated by RIPA Lysis Buffer (G2002).
Blocking buffer: 3% Nonfat dry milk (GC310001) in TBST, RT, 1h.
Primary antibody: 1: 1000, 4°C overnight.
Secondary antibody: HRP conjugated Goat Anti-Rabbit IgG (H+L) (GB23303), 1: 5000, RT, 1h.



IHC analysis of BMP2(GB11252).
Sample: Mouse bone, 4% PFA (G1101) 12-24h.
Antigen retrieval: Citrate buffer (pH 6.0) (G1201), 98°C, 20 min.
Primary antibody: 1: 500, 4°C overnight.
Secondary antibody: HRP conjugated Goat Anti-Rabbit IgG (H+L) (GB23303), 1: 200, RT, 1h.



IHC analysis of BMP2(GB11252).
Sample: Mouse bone, 4% PFA (G1101) 12-24h.
Antigen retrieval: Citrate buffer (pH 6.0) (G1201), 98°C, 20 min.
Primary antibody: 1: 500, 4°C overnight.
Secondary antibody: HRP conjugated Goat Anti-Rabbit IgG (H+L) (GB23303), 1: 200, RT, 1h.

For Research Use Only!

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