

Recombinant Anti-BMP2 antibody (Rabbit mAb)



GB15252 -20°C

Product Information	
Protein full name	Bone morphogenetic protein 2
Synonyms	BMP2, BDA2, BMP2A, bone morphogenetic protein 2
Immunogen	Recombinant protein corresponding to Human BMP2
Uniprot ID	P12643
Isotype	IgG, κ
Clone Number	SB284
Purity	Affinity purification
Subcellular location	Secreted
Predicted MW./Observed MW.	45 kDa / 前体蛋白: 45-50 kDa 二聚体: 26-29 kDa; 糖基化单体: 18 kDa 单体: 12-14 kDa

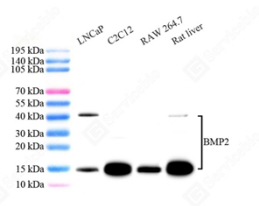
Applications	Species	Dilution	Positive Tissue
WB	Human, Mouse, Rat	1: 1000-1: 3000	C2C12, liver, RAW264.7
IHC/IF	Human, Mouse, Rat	1: 500-1: 1000	colon cancer, bone, endometrial Cancer

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.

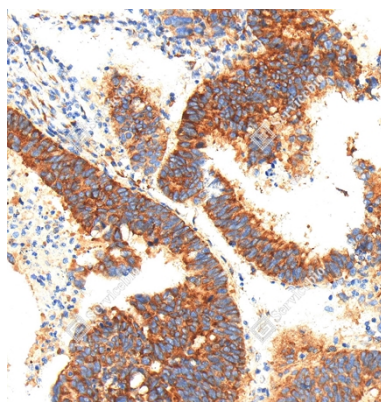
background

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.

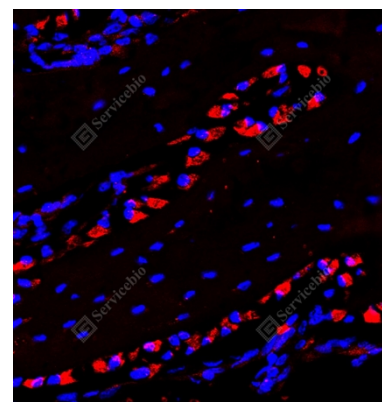
Images



WB analysis of BMP2(GB15252).
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(GB15252).
Sample: Human colon cancer, 4% PFA (G1101) 12-24h.
Antigen retrieval: Tris-EDTA buffer (pH 9.0) (G1203), 98°C, 20min.
Primary antibody: 1: 500, 4°C overnight.
Secondary antibody: S-vision poly-HRP conjugated Goat Anti-Rabbit IgG (H+L), Ready to use (G1302), RT, 20min.



IF analysis of BMP2(GB15252)red.
Sample: Rat bone, 4% PFA (G1101) 12-24h.
Antigen retrieval: Tris-EDTA buffer (pH 9.0) (G1203), 98°C, 20min.
Blocking buffer: 3% BSA (GC305010) in PBS, RT, 30min.
Primary antibody: 1: 500, 4°C overnight.
Secondary antibody: Cy3 conjugated Goat Anti-Rabbit IgG (H+L) (GB21303), 1: 300, RT, 1h.

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