

For Research Use Only

BMP2 Monoclonal antibody

Catalog Number: 66383-1-Ig **38 Publications**



Basic Information

Catalog Number: 66383-1-Ig	GenBank Accession Number: BC069214	Purification Method: Protein A purification
Size: 1400 µg/ml	GeneID (NCBI): 650	CloneNo.: 1C5C2
Source: Mouse	UNIPROT ID: P12643	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Isotype: IgG2a	Full Name: bone morphogenetic protein 2	
Immunogen Catalog Number: AG13501	Calculated MW: 396 aa, 44 kDa	
	Observed MW: 45 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : pig bone marrow tissue, Caco-2 cells, HeLa cells IHC : human small intestine tissue,
Cited Applications: WB, IF, IHC, Cell treatment	
Species Specificity: human, pig	
Cited Species: human, rat, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Bone morphogenetic protein-2 (BMP-2) is a member of the transforming growth factor-beta (TGFB) superfamily. BMP2 is synthesized as a 60 kDa precursor that is processed in the secretory pathway to a small 18 kDa monomer; 2 monomers then associate to form the active 30 kDa homodimer, which binds to its receptor. There is also a 40-45 kDa form of BMP2, as an amino-terminal propeptide. BMP2 can induce bone formation and regeneration during early embryonic development. It is involved in the hedgehog pathway, TGF beta signaling pathway, and cytokine-cytokine receptor interaction.

Notable Publications

Author	Pubmed ID	Journal	Application
Hao Li	36123318	Phytother Res	WB
Xiangchang Cao	31493249	J Bone Miner Metab	WB, IHC
Xiaojing Chen	36356468	Biomater Adv	WB

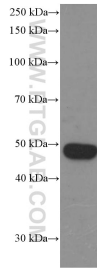
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

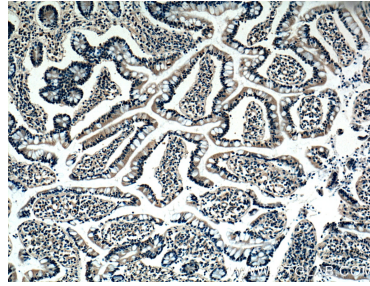
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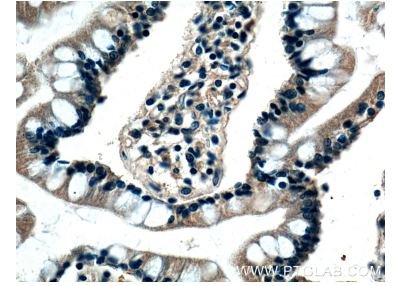
Selected Validation Data



pig bone marrow tissue were subjected to SDS PAGE followed by western blot with 66383-1-Ig (BMP2 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 66383-1-Ig (BMP2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 66383-1-Ig (BMP2 Antibody) at dilution of 1:200 (under 40x lens).