

BMP2 Monoclonal antibody

Catalog Number: 66383-1-Ig

42 Publications

Basic Information

Catalog Number:

66383-1-Ig

Size:

1400 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG13501

GenBank Accession Number:

BC069214

GeneID (NCBI):

650

UNIPROT ID:

P12643

Full Name:

bone morphogenetic protein 2

Calculated MW:

396 aa, 44 kDa

Observed MW:

45 kDa

Purification Method:

Protein A purification

CloneNo.:

1C5C2

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

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

Positive Controls:

WB : pig bone marrow tissue, Caco-2 cells, HeLa cells

IHC : human small intestine tissue,

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

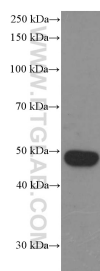
For technical support and original validation data for this product please contact:

T: 4006900926

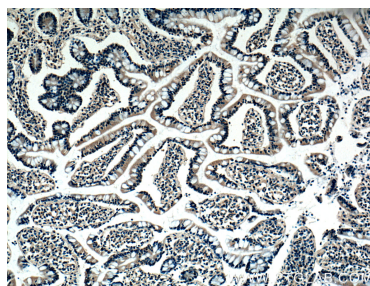
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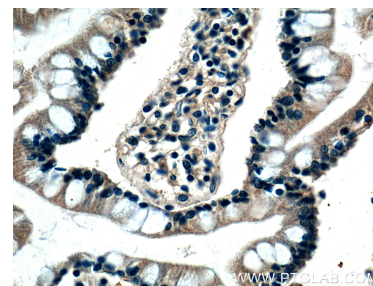
Selected Validation Data



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).