

For Research Use Only

BMP9 Polyclonal antibody

Catalog Number: 17769-1-AP



Basic Information

Catalog Number:

17769-1-AP

Size:

150UL, Concentration: 450 µg/ml by Nanodrop and 227 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG12177

GenBank Accession Number:

BC074921

GeneID (NCBI):

2658

Full Name:

growth differentiation factor 2

Calculated MW:

429 aa, 47 kDa

Observed MW:

30 kDa, 46 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human

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 : L02 cells, SMMC-7721 cells

IHC : human liver cancer tissue, human hepatocirrhosis tissue

Background Information

BMP9 is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in rodents suggest that this protein plays a role in the adult liver and in differentiation of cholinergic central nervous system neurons. Mutations in this gene are associated with hereditary hemorrhagic telangiectasia. Human BMP9 precursor protein contains 429 amino acids and has a calculated molecular mass of about 47 kD. Posttranslational processing results in a mature BMP9 protein of about 13 kD. Once secreted, BMP9 may exist as dimers of mature regions or as BMP9 proregion complexes in which the proregion of BMP9 remains tightly associated with the mature dimer.

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

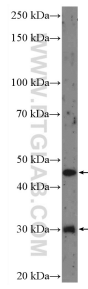
For technical support and original validation data for this product please contact:

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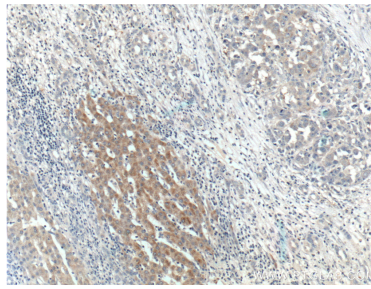
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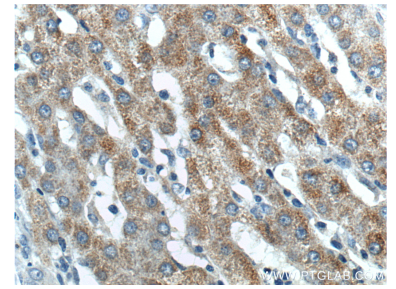
Selected Validation Data



L02 cells were subjected to SDS PAGE followed by western blot with 17769-1-AP (BMP9 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17769-1-AP (BMP9 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17769-1-AP (BMP9 Antibody) at dilution of 1:200 (under 40x lens).