

For Research Use Only

# BMP6 Polyclonal antibody

Catalog Number: 55421-1-AP

3 Publications



## Basic Information

Catalog Number:

55421-1-AP

Concentration:

800 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_001718

GeneID (NCBI):

654

UNIPROT ID:

P22004

Full Name:

bone morphogenetic protein 6

Calculated MW:

57 kDa

Observed MW:

57 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:500-1:2000

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB : A549 cells, mouse liver tissue, HEK-293 cells, HL-60 cells, U2OS cells

IHC : human tonsillitis tissue, human liver tissue

**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 6 (BMP6) is also named as VG-1-related protein (VG-1-R, VGR-1) and VGR, and belongs to the TGF-beta family (PMID:33878365). Growth factor of the TGF-beta superfamily plays essential roles in many developmental processes including cartilage and bone formation (PMID:31019025). BMP6 participates in iron homeostasis, inhibits invasion by increasing adhesions and cell-cell type interactions and induces angiogenesis directly on vascular endothelial cells. BMP6 is coded by a tumor suppressor gene whose subexpression is related to the development and cancer progression; during neoplastic processes, methylation is the main mechanism by which gene silencing occurs (PMID:34706618). BMP6 plays an important role in the regulation of hepcidin/HAMP expression and iron metabolism by acting as a ligand for hemojuvelin/HJV (PMID:26582087). BMP6 initiates the canonical BMP signaling cascade by associating with type I receptor ACVR1 and type II receptor ACVR2B (PMID:18070108).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yaoxue Guo	39797928	J Neuroimmune Pharmacol	WB
Kaiwei Wang	38485350	J Pharmacol Sci	IHC
Xuan Liu	38403744	Cell Tissue Res	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:

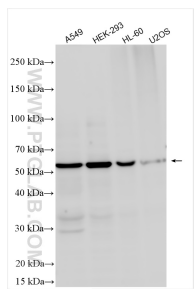
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

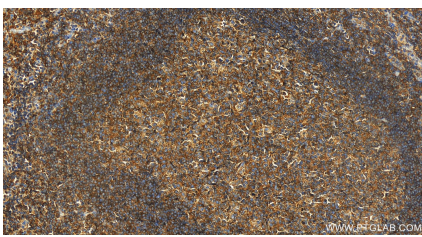
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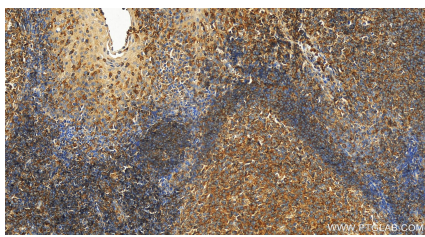
Selected Validation Data



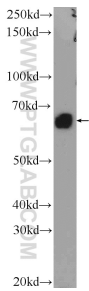
Various lysates were subjected to SDS PAGE followed by western blot with 55421-1-AP (BMP6 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 55421-1-AP (BMP6 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 55421-1-AP (BMP6 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse liver tissue were subjected to SDS PAGE followed by western blot with 55421-1-AP (BMP6 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.