

For Research Use Only

BMP6 Polyclonal antibody

Catalog Number: 55421-1-AP

4 Publications



Basic Information

Catalog Number: 55421-1-AP	GenBank Accession Number: NM_001718	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 800 ug/ml by Nanodrop;	GeneID (NCBI): 654	Recommended Dilutions: WB 1:500-1:1000 IHC 1:500-1:2000
Source: Rabbit	UNIPROT ID: P22004	
Isotype: IgG	Full Name: bone morphogenetic protein 6	
	Calculated MW: 57 kDa	
	Observed MW: 57 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB : A549 cells, mouse liver tissue, HEK-293 cells, HL-60 cells, U2OS cells
Species Specificity: human, mouse	IHC : human tonsillitis tissue, human liver tissue
Cited Species: human, mouse, rat	
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
Qihui Liang	39853686	J Assist Reprod Genet	WB
Yaoxue Guo	39797928	J Neuroimmune Pharmacol	WB
Kaiwei Wang	38485350	J Pharmacol Sci	IHC

Storage

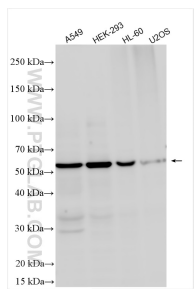
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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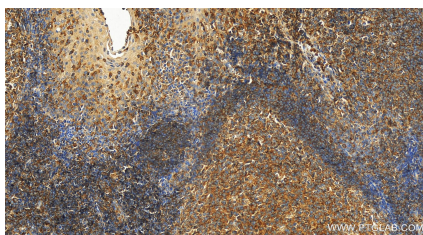
Selected Validation Data



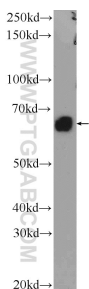
Various lysates were subjected to SDS PAGE followed by western blot with 55421-1-AP (BMP6 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



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.