

For Research Use Only

Prohibitin Monoclonal antibody

Catalog Number: 60092-1-Ig **4 Publications**



Basic Information

Catalog Number: 60092-1-Ig	GenBank Accession Number: BC013401	Purification Method: Protein G purification
Concentration: 900 ug/ml	GeneID (NCBI): 5245	CloneNo.: 4D3G5
Source: Mouse	UNIPROT ID: P35232	Recommended Dilutions: WB 1:500-1:2000 IHC 1:50-1:500
Isotype: IgG1	Full Name: prohibitin	
Immunogen Catalog Number: AG1240	Calculated MW: 30 kDa Observed MW: 30 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Cited Applications: WB, IF, IP	WB : human heart tissue, HeLa cells, human placenta tissue, pig heart tissue, rat heart tissue
Species Specificity: human, rat, pig	IHC : human liver tissue, human kidney tissue, human heart tissue
Cited Species: human, 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

Prohibitin, also known as PHB, a member of the Band-7 family of proteins, is widely distributed in bacteria, plants, yeast, protozoa and mammals and is important in cell proliferation, differentiation and apoptosis (PMID: 20840588). This protein localizes to the inner membrane of mitochondria, where it acts as a chaperone protein, and is also found in the nucleus, where it negatively regulates transcription (PMID: 18558096). Recent study confirmed that the expression and distribution of PHB, which is a nuclear matrix protein, affect the apoptosis of HaCaT cells and its co-localization with specific gene products connected with cell apoptosis (PMID: 24402549).

Notable Publications

Author	Pubmed ID	Journal	Application
Yating Peng	35378837	Int J Chron Obstruct Pulmon Dis	WB
Li-Li Ma	29100316	Oncotarget	IF
Zi-Jia Huang	38617530	Int J Biol Sci	WB

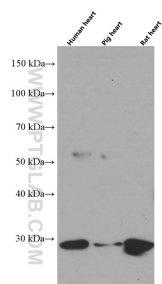
Storage

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

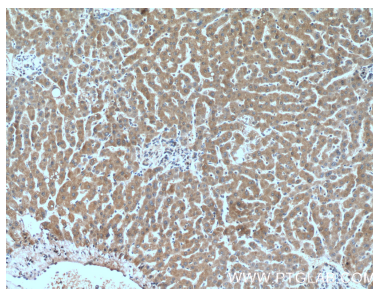
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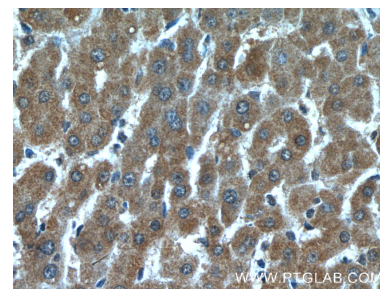
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60092-1-Ig (Prohibitin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 60092-1-Ig (Prohibitin antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 60092-1-Ig (Prohibitin antibody) at dilution of 1:200 (under 40x lens).