

For Research Use Only

Prohibitin Polyclonal antibody

Catalog Number: 10787-1-AP

Featured Product

22 Publications



Basic Information

Catalog Number: 10787-1-AP	GenBank Accession Number: BC013401	Purification Method: Antigen affinity purification
Size: 500 µg/ml	GeneID (NCBI): 5245	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500 IF 1:200-1:800
Source: Rabbit	UNIPROT ID: P35232	
Isotype: IgG	Full Name: prohibitin	
Immunogen Catalog Number: AG1240	Calculated MW: 30 kDa Observed MW: 30 kDa	

Applications

Tested Applications:
IF/ICC, IHC, WB, ELISA

Cited Applications:
CoIP, IF, IHC, IP, WB

Species Specificity:
human, mouse, rat

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: A431 cells, human liver tissue, human brain tissue, NIH/3T3 cells, HeLa cells, Raji cells, Jurkat cells, mouse brain tissue, mouse heart tissue, mouse kidney tissue, rat brain tissue, rat heart tissue, rat kidney tissue

IHC: human liver cancer tissue, human heart tissue

IF: H9C2 cells, HepG2 cells, HeLa cells

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
Huijing Yin	31501431	Cell Death Dis	WB
Chong-Chong Guo	26557149	Evid Based Complement Alternat Med	WB
Hao Liu	36245295	EMBO J	WB,IF

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:

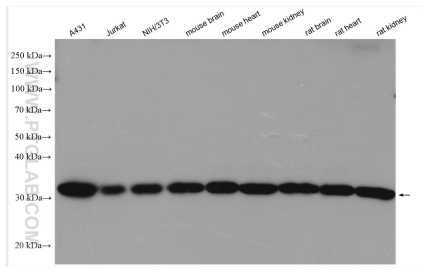
T: 4006900926

E: Proteintech-CN@ptglab.com

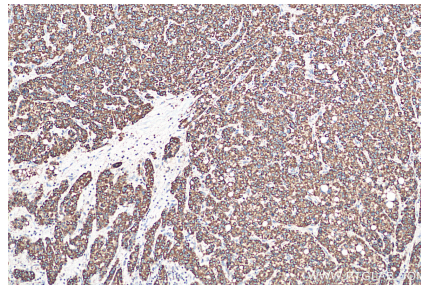
W: ptgcn.com

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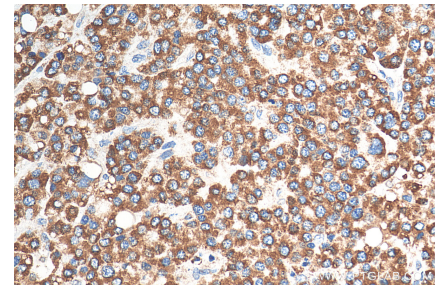
Selected Validation Data



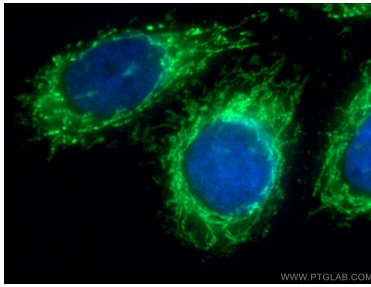
Various lysates were subjected to SDS PAGE followed by western blot with 10787-1-AP (Prohibitin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



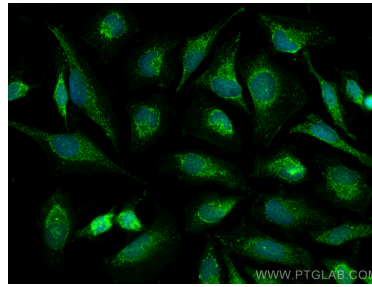
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10787-1-AP (Prohibitin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



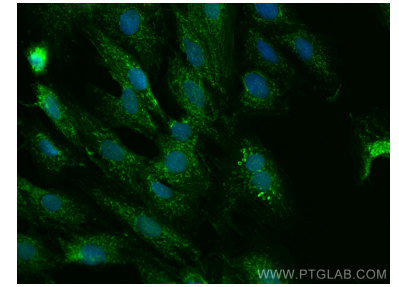
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10787-1-AP (Prohibitin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10787-1-AP (Prohibitin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Prohibitin antibody (10787-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed H9C2 cells using Prohibitin antibody (10787-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).