

For Research Use Only

Prohibitin Polyclonal antibody

Catalog Number:10787-1-AP

Featured Product

25 Publications



Basic Information

Catalog Number:

10787-1-AP

Size:

150ul , Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1240

GenBank Accession Number:

BC013401

GeneID (NCBI):

5245

UNIPROT ID:

P35232

Full Name:

prohibitin

Calculated MW:

30 kDa

Observed MW:

30 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

IHC: 1:50-1:500

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

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

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/ICC : HeLa cells, HepG2 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

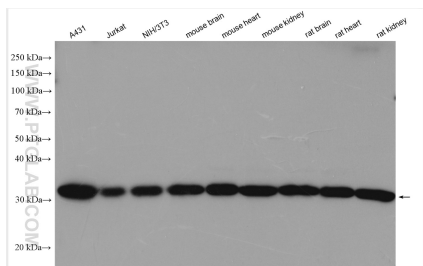
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

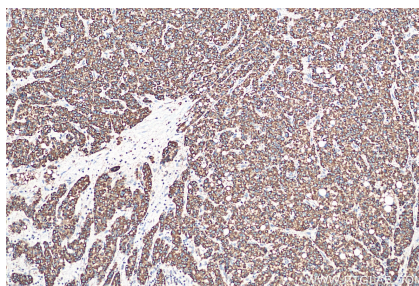
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

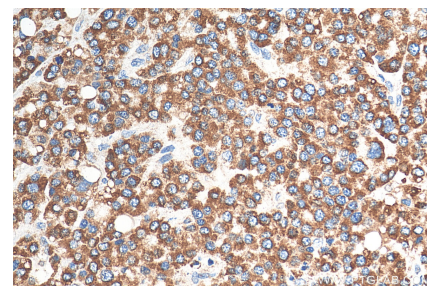
Selected Validation Data



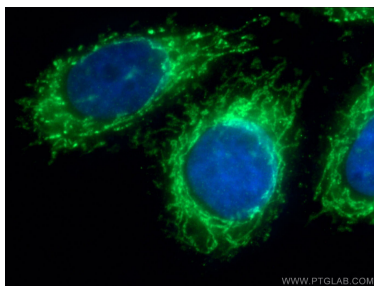
Various lysates were subjected to SDS PAGE followed by western blot with 10787-1-AP (Prohibitin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



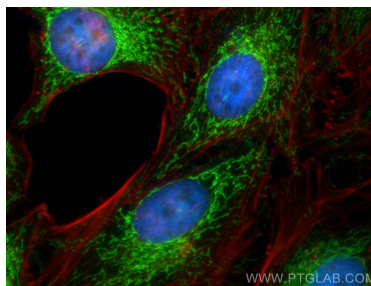
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 10787-1-AP (Prohibitin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).