

For Research Use Only

# Prohibitin 2 Polyclonal antibody

Catalog Number: 12295-1-AP

Featured Product

42 Publications



## Basic Information

**Catalog Number:**

12295-1-AP

**Size:**

800 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2977

**GenBank Accession Number:**

BC014766

**GeneID (NCBI):**

11331

**UNIPROT ID:**

Q99623

**Full Name:**

prohibitin 2

**Calculated MW:**

299 aa, 33 kDa

**Observed MW:**

33 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:16000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF 1:50-1:500

## Applications

**Tested Applications:**

FC, IF/ICC, IHC, IP, WB, ELISA

**Cited Applications:**

WB, IP, IF, IHC, CoIP, Electrochemical Immunosensor

**Species Specificity:**

human, mouse

**Cited Species:**

human, rat, mouse, rice

**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 : HeLa cells,

IP : HeLa cells, mouse brain tissue

IHC : human heart tissue, human pancreas tissue

IF : HepG2 cells,

## Background Information

PHB2, also named as BAP, REA, D-prohibitin, BAP37 and Prohibitin-2, belongs to the prohibitin family. It acts as a mediator of transcriptional repression by nuclear hormone receptors via recruitment of histone deacetylases. PHB2 functions as an estrogen receptor (ER)-selective coregulator that potentiates the inhibitory activities of antiestrogens and represses the activity of estrogens. It competes with NCOA1 for modulation of ER transcriptional activity. PHB2 is probably involved in regulating mitochondrial respiration activity and in aging. (PMID: 10359819)

## Notable Publications

Author	Pubmed ID	Journal	Application
Y Poitelon	26383514	Nat Commun	IF
Ryan Houston	34495738	Mol Biol Cell	WB
Kelly A Chamberlain	34506725	Neuron	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:

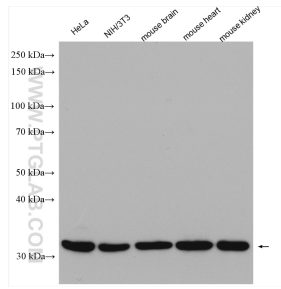
T: 4006900926

E: Proteintech-CN@ptglab.com

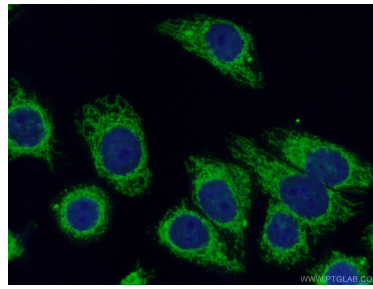
W: ptgcn.com

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

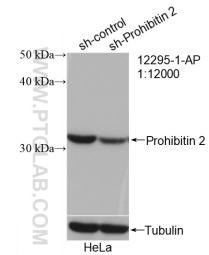
## Selected Validation Data



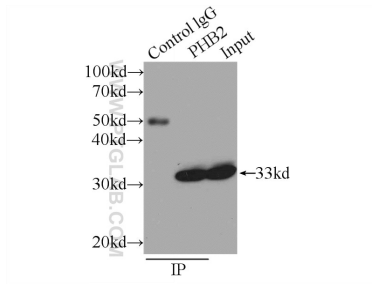
Various lysates were subjected to SDS PAGE followed by western blot with 12295-1-AP (Prohibitin 2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



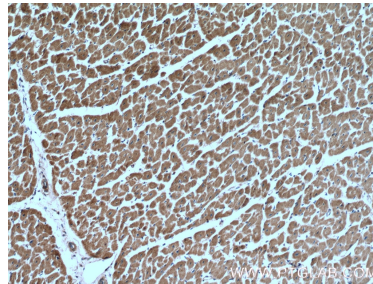
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12295-1-AP (Prohibitin 2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



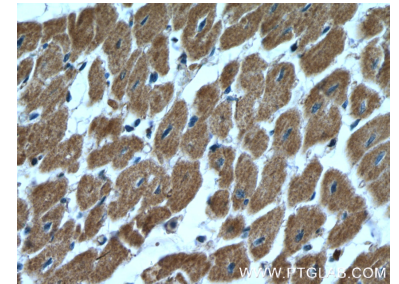
WB result of Prohibitin 2 antibody (12295-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Prohibitin 2 transfected HeLa cells.



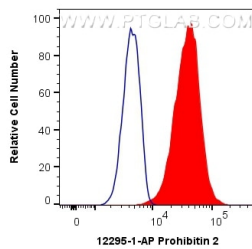
IP result of anti-Prohibitin 2 (IP:12295-1-AP, 3ug; Detection:12295-1-AP 1:1000) with HeLa cells lysate 1840ug.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 12295-1-AP (Prohibitin 2 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 12295-1-AP (Prohibitin 2 antibody) at dilution of 1:200 (under 40x lens).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4 ug Anti-Human Prohibitin 2 (12295-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).