

For Research Use Only

Prohibitin 2 Polyclonal antibody

Catalog Number: 12295-1-AP

Featured Product

42 Publications



Basic Information

Catalog Number: 12295-1-AP	GenBank Accession Number: BC014766	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 400 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 11331	Recommended Dilutions: WB 1:2000-1:16000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	Full Name: prohibitin 2	
Isotype: IgG	Calculated MW: 299 aa, 33 kDa	
Immunogen Catalog Number: AG2977	Observed MW: 33 kDa	

Applications

Tested Applications: FC, IF, IHC, IP, WB, ELISA	Positive Controls: WB : HeLa cells, IP : HeLa cells, mouse brain tissue IHC : human heart tissue, human pancreas tissue IF : HepG2 cells,
Cited Applications: CoIP, Electrochemical Immunosensor, IF, IHC, IP, WB	
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	

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

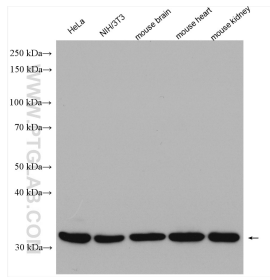
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

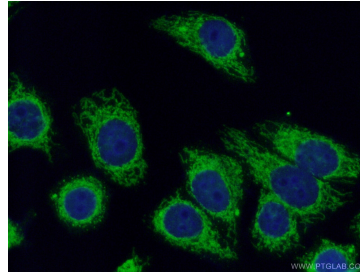
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

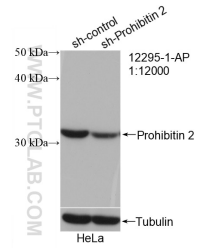
Selected Validation Data



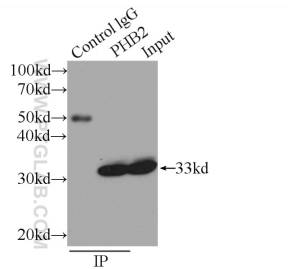
Various lysates were subjected to SDS PAGE followed by western blot with 12295-1-AP (Prohibitin 2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



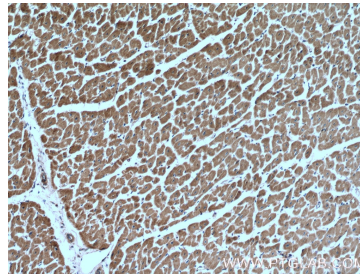
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12295-1-AP (Prohibitin 2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



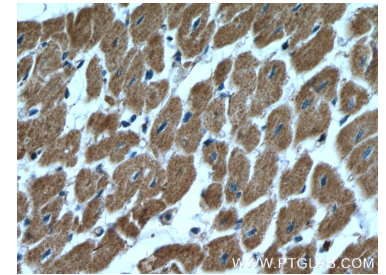
WB result of Prohibitin 2 antibody (12295-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Prohibitin 2 transfected HeLa cells.



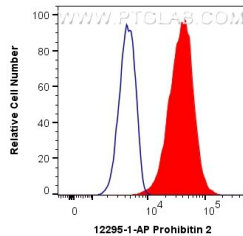
IP Result of anti-Prohibitin 2 (IP:12295-1-AP, 3ug; Detection:12295-1-AP 1:1000) with HeLa cells lysate 1840ug.



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).



1X10⁶ 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).