

For Research Use Only

# Prohibitin 2 Monoclonal antibody

Catalog Number: 66424-1-Ig

Featured Product

14 Publications



## Basic Information

Catalog Number:

66424-1-Ig

Size:

150ul, Concentration: 700 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG1

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:

Protein G purification

CloneNo.:

1D9C7

Recommended Dilutions:

WB: 1:10000-1:50000

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

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**

Positive Controls:

WB: Jurkat cells, HeLa cells, HEK-293 cells, MCF-7 cells, LNCaP cells, HSC-T6 cells, ROS1728 cells, NIH/3T3 cells, 4T1 cells

IHC: human breast cancer tissue, human heart tissue

IF/ICC: HepG2 cells, HeLa 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
Ryan Houston	34495738	Mol Biol Cell	IHC
Chen Liang	31672359	Environ Pollut	WB,IF
Norihiko Furuya	30309841	EMBO Rep	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

\*\*\* 20ul sizes contain 0.1% BSA

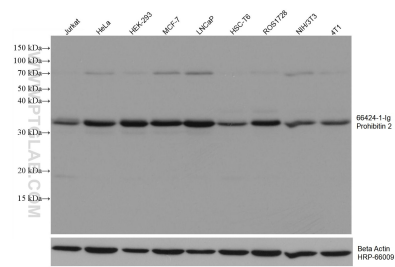
For technical support and original validation data for this product please contact:

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

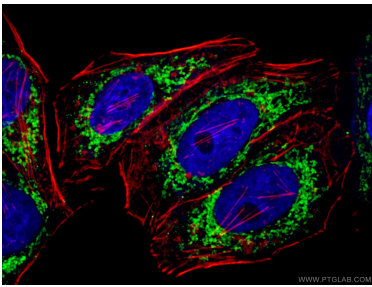
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

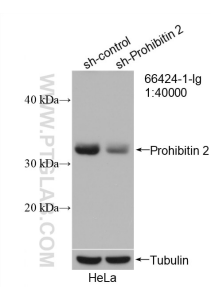
Selected Validation Data



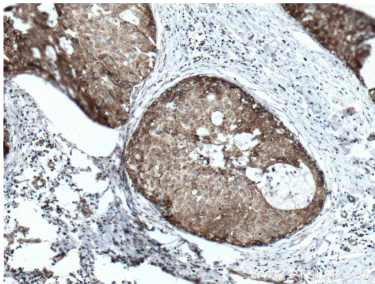
Various lysates were subjected to SDS PAGE followed by western blot with 66424-1-Ig (Prohibitin 2 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



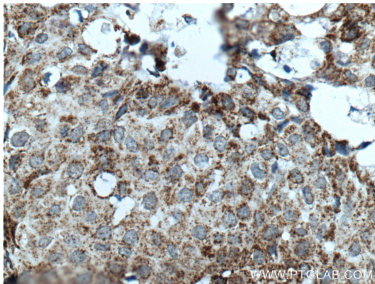
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66424-1-Ig (Prohibitin 2 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). F-actin was labelled in red with Phalloidin.



WB result of Prohibitin 2 antibody (66424-1-Ig; 1:40000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Prohibitin 2 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66424-1-Ig (Prohibitin 2 antibody at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66424-1-Ig (Prohibitin 2 antibody at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).