

For Research Use Only

# Prohibitin Monoclonal antibody

Catalog Number: 60092-1-Ig **4 Publications**



## Basic Information

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|--|--|--|
| <b>Catalog Number:</b><br>60092-1-Ig       | <b>GenBank Accession Number:</b><br>BC013401 | <b>Purification Method:</b><br>Protein A purification              |
| <b>Concentration:</b><br>900 ug/ml         | <b>GeneID (NCBI):</b><br>5245                | <b>CloneNo.:</b><br>4D3G5  |
| <b>Source:</b><br>Mouse                    | <b>UNIPROT ID:</b><br>P35232                 | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IHC 1:50-1:500 |
| <b>Isotype:</b><br>IgG1                    | <b>Full Name:</b><br>prohibitin              |  |
| <b>Immunogen Catalog Number:</b><br>AG1240 | <b>Calculated MW:</b><br>30 kDa              |  |
|  | <b>Observed MW:</b><br>30 kDa                |  |

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Cited Applications:**  
WB, IF, IP

**Species Specificity:**  
human, rat, pig

**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 :** human heart tissue, HeLa cells, human placenta tissue, pig heart tissue, rat heart tissue

**IHC :** human liver tissue, human kidney tissue, human heart tissue

## 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 |
|--------------|-----------|---------------------------------|-------------|
| Yating Peng  | 35378837  | Int J Chron Obstruct Pulmon Dis | WB          |
| Li-Li Ma     | 29100316  | Oncotarget                      | IF          |
| Zi-Jia Huang | 38617530  | Int J Biol Sci                  | 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

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

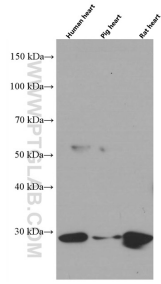
T: 4006900926

E: Proteintech-CN@ptglab.com

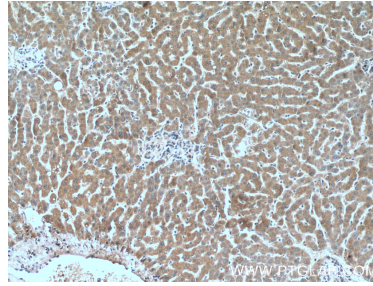
W: ptgcn.com

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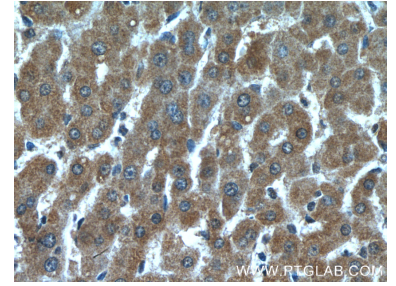
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60092-1-Ig (Prohibitin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 60092-1-Ig (Prohibitin antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 60092-1-Ig (Prohibitin antibody) at dilution of 1:200 (under 40x lens).