

**PHB Antibody**  
Purified Mouse Monoclonal Antibody (Mab)  
Catalog # AM2247b

**Specification**

**PHB Antibody - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P35232</a>
Reactivity	<b>Human, Mouse, Rat</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG2b,k</b>
Calculated MW	<b>29804</b>
Antigen Region	<b>1-205</b>

**PHB Antibody - Additional Information**

**Gene ID** 5245

**Other Names**  
Prohibitin, PHB

**Target/Specificity**

This antibody is generated from a mice immunized with a recombinant protein between 1-205 amino acids from human.

**Dilution**

WB~~1:1000  
IHC-P~~1:25

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

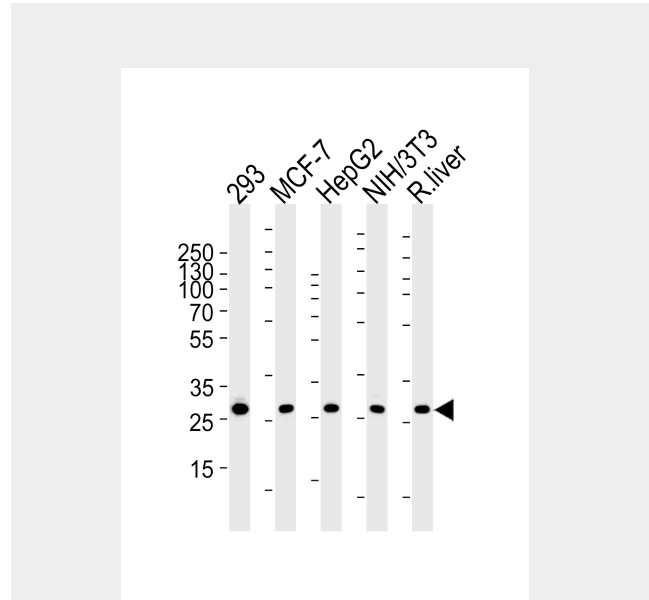
**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

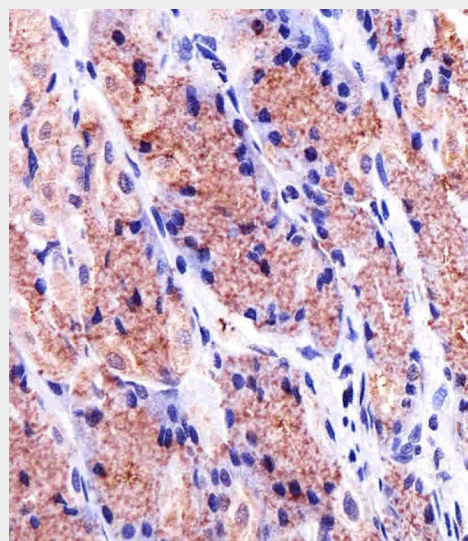
**Precautions**

PHB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**PHB Antibody - Protein Information**



Western blot analysis of lysates from 293,MCF-7,HepG2,mouse NIH/3T3 cell line and rat liver tissue (from left to right),using USF1 Antibody (Center) (Cat. #AM2247b). AM2247b was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody.Lysates at 35µg per lane.



Immunohistochemical analysis of paraffin-embedded H. stomach section using PHB Antibody(Cat#AM2247b). AM2247b was

**Name** PHB ([HGNC:8912](#))

#### Function

Protein with pleiotropic attributes mediated in a cell- compartment- and tissue-specific manner, which include the plasma membrane-associated cell signaling functions, mitochondrial chaperone, and transcriptional co-regulator of transcription factors in the nucleus (PubMed:[11302691](http://www.uniprot.org/citations/11302691) target=" \_blank">11302691</a>, PubMed:[20959514](http://www.uniprot.org/citations/20959514) target=" \_blank">20959514</a>, PubMed:[28017329](http://www.uniprot.org/citations/28017329) target=" \_blank">28017329</a>, PubMed:[31522117](http://www.uniprot.org/citations/31522117) target=" \_blank">31522117</a>). Plays a role in adipose tissue and glucose Homeostasis in a sex-specific manner (By similarity). Contributes to pulmonary vascular remodeling by accelerating proliferation of pulmonary arterial smooth muscle cells (By similarity).

#### Cellular Location

Mitochondrion inner membrane. Nucleus. Cytoplasm. Cell membrane

#### Tissue Location

Widely expressed in different tissues.

diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

#### PHB Antibody - Background

Prohibitin inhibits DNA synthesis. It has a role in regulating proliferation. As yet it is unclear if the protein or the mRNA exhibits this effect. May play a role in regulating mitochondrial respiration activity and in aging.

#### PHB Antibody - References

Sato T.,et al.Cancer Res. 52:1643-1646(1992).  
Sato T.,et al.Genomics 17:762-764(1993).  
Kalnina N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.  
Bienvenut W.V.,et al.Submitted (MAR-2005) to UniProtKB.  
Lubec G.,et al.Submitted (DEC-2008) to UniProtKB.

#### PHB Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)