

# PHB Antibody

Purified Mouse Monoclonal Antibody (Mab)  
Catalog # AW5065

## Product Information

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

## Additional Information

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<b>Gene ID</b>	5245
<b>Antigen Region</b>	1-205
<b>Other Names</b>	Prohibitin, PHB
<b>Dilution</b>	IHC-P~~1:100~500 WB~~1:1000
<b>Target/Specificity</b>	This antibody is generated from a mice immunized with a recombinant protein between 1-205 amino acids from human.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	PHB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	PHB1 {ECO:0000303 PubMed:28017329, ECO:0000312 HGNC:HGNC:8912}
<b>Function</b>	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: <a href="#">11302691</a> , PubMed: <a href="#">20959514</a> , PubMed: <a href="#">28017329</a> , PubMed: <a href="#">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.

**Background**

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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.

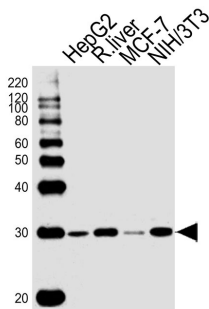
**References**

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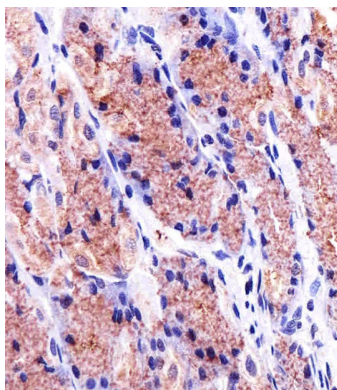
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Bienvenut W.V.,et al.Submitted (MAR-2005) to UniProtKB.  
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**Images**

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Western blot analysis of lysates from HepG2 cell line, rat liver tissue, MCF-7, mouse NIH/3T3 cell line (from left to right), using PHB Antibody (Cat. #AW5065). AW5065 was diluted at 1:1000 at each lane. A goat anti-mouse IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.



Immunohistochemical analysis of paraffin-embedded H. stomach section using PHB Antibody (Cat#AW5065). AW5065 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.