

# PHB Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20757a

## Product Information

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Application	WB, E
Primary Accession	<a href="#">P35232</a>
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB49680
Calculated MW	29804

## Additional Information

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Gene ID	5245
Other Names	Prohibitin, PHB
Target/Specificity	This PHB antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 73-107 amino acids from the N-terminal region of human PHB.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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Name	PHB1 {ECO:0000303 PubMed:28017329, ECO:0000312 HGNC: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: <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).

<b>Cellular Location</b>	Mitochondrion inner membrane. Nucleus. Cytoplasm. Cell membrane
<b>Tissue Location</b>	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.

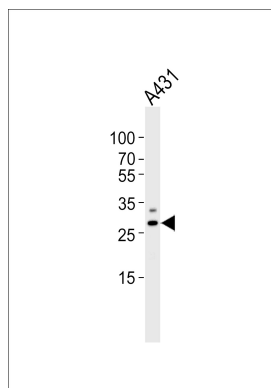
## References

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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.

## Images

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Western blot analysis of lysate from A431 cell line, using PHB Antibody (N-term)(Cat. #AP20757a). AP20757a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

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