

**PHB Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20757a**

## Specification

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### PHB Antibody (N-term) - Product Information

|                   |   |
|-------------------|---|
| Application       | WB,E  |
| Primary Accession | <a href="#">P35232</a>  |
| Other Accession   | <a href="#">P67779</a> , <a href="#">P67778</a> , <a href="#">Q3T165</a> , <a href="#">P24156</a> |
| Reactivity        | Human   |
| Predicted         | Bovine, Drosophila, Mouse, Rat  |
| Host              | Rabbit  |
| Clonality         | Polyclonal  |
| Isotype           | Rabbit IgG  |
| Calculated MW     | 29804   |

### PHB Antibody (N-term) - Additional Information

**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

#### 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.

### PHB Antibody (N-term) - Protein Information

**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:[11302691](#), PubMed:[20959514](#), PubMed:[28017329](#), PubMed:[31522117](#)). 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

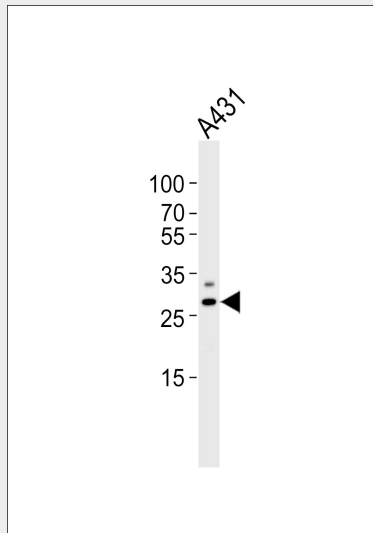
Widely expressed in different tissues.

### PHB Antibody (N-term) - 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](#)

### PHB Antibody (N-term) - Images



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.

### PHB Antibody (N-term) - 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 (N-term) - References**

Sato T., et al. *Cancer Res.* 52:1643-1646(1992).

Sato T., et al. *Genomics* 17:762-764(1993).

Kalnine 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.