

**PHB Antibody (Center)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2710C**

**Specification**

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**PHB Antibody (Center) - Product Information**

Application	IF, WB, IHC-P, FC,E
Primary Accession	<a href="#">P35232</a>
Other Accession	<a href="#">P84173</a> , <a href="#">Q3T165</a>
Reactivity	Human
Predicted	Bovine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	89-117

**PHB Antibody (Center) - Additional Information**

**Gene ID** 5245

**Other Names**  
Prohibitin, PHB

**Target/Specificity**

This PHB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-117 amino acids from the Central region of human PHB.

**Dilution**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation 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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**PHB Antibody (Center) - 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**

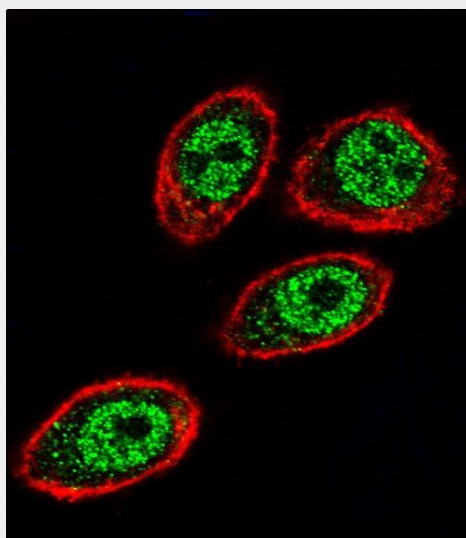
Widely expressed in different tissues.

### **PHB Antibody (Center) - Protocols**

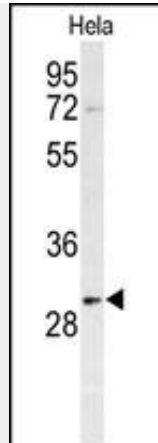
Provided below are standard protocols that you may find useful for product applications.

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

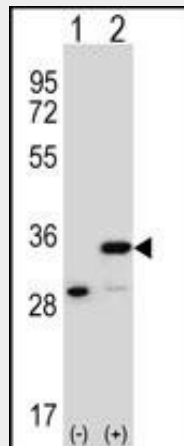
### **PHB Antibody (Center) - Images**



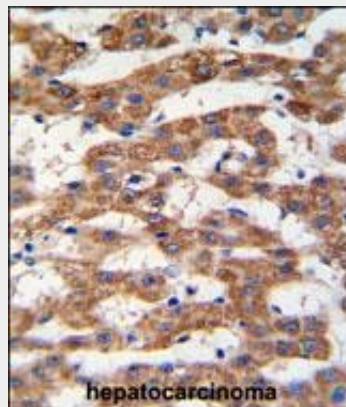
Confocal immunofluorescent analysis of PHB Antibody (Center)(Cat#AP2710c) with HeLa cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).



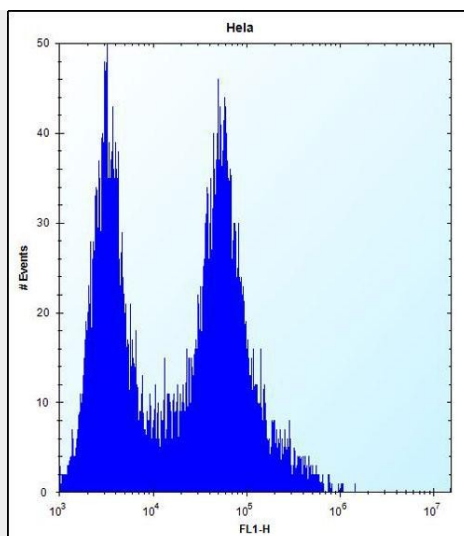
Western blot analysis of PHB Antibody (Center) (Cat.#AP2710c) in HeLa cell line lysates (35ug/lane). PHB (arrow) was detected using the purified Pab.



Western blot analysis of PHB (arrow) using rabbit polyclonal PHB Antibody (Center) (Cat.#AP2710c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the PHB gene.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PHB antibody (Center) (Cat. #AP2710c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



PHB Antibody (Center) (Cat. #AP2710c) flow cytometric analysis of HeLa cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **PHB Antibody (Center) - Background**

Prohibitin is an evolutionarily conserved protein that is ubiquitously expressed. It is thought to be a negative regulator of cell proliferation and may be a tumor suppressor. Mutations have been linked to sporadic breast cancer. Prohibitin is expressed as two transcripts with varying lengths of 3' untranslated region.

#### **PHB Antibody (Center) - References**

Gregory-Bass, R.C., *Int. J. Cancer* 122 (9), 1923-1930 (2008)  
Ross, J.A., *J. Biol. Chem.* 283 (8), 4699-4713 (2008)  
White, J.J., *Genomics* 11 (1), 228-230 (1991)