

# PHB Antibody (C-term E194)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2710d

## Product Information

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<b>Application</b>	WB, IHC-P, FC, E
<b>Primary Accession</b>	<a href="#">P35232</a>
<b>Other Accession</b>	<a href="#">P67779</a> , <a href="#">P67778</a> , <a href="#">Q3T165</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Bovine, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB17564
<b>Calculated MW</b>	29804
<b>Antigen Region</b>	179-205

## Additional Information

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<b>Gene ID</b>	5245
<b>Other Names</b>	Prohibitin, PHB
<b>Target/Specificity</b>	This PHB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 179-205 amino acids from the C-terminal region of human PHB.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<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 (C-term E194) 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:[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).

<b>Cellular Location</b>	Mitochondrion inner membrane. Nucleus. Cytoplasm. Cell membrane
<b>Tissue Location</b>	Widely expressed in different tissues.

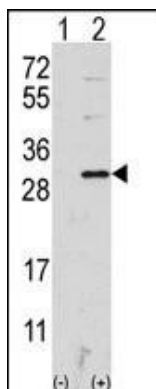
## Background

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.

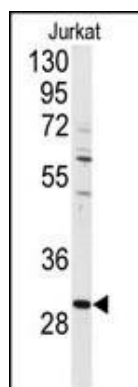
## References

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)

## Images

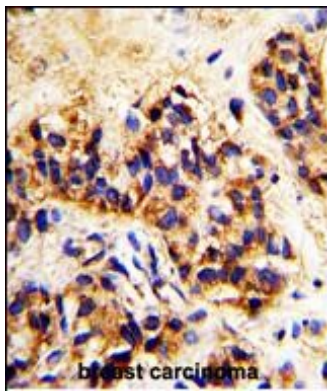


Western blot analysis of PHB (arrow) using rabbit polyclonal PHB Antibody (C-term) (Cat.#AP2710d). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PHB gene (Lane 2) (Origene Technologies).

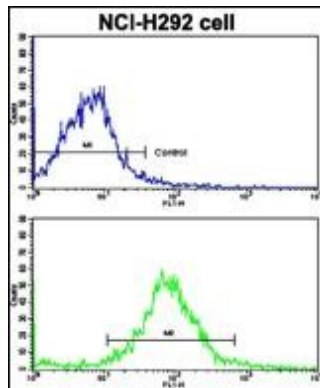


Western blot analysis of anti-PHB Antibody (C-term) (Cat.#AP2710d) in Jurkat cell line lysates (35ug/lane).PHB (arrow) was detected using the purified Pab.

Formalin-fixed and paraffin-embedded human breast carcinoma reacted with PHB Antibody (C-term E194), 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.



Flow cytometric analysis of NCI-H292 cells using PHB Antibody (C-term E194)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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