

**Prohibitin Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10619****Specification**

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**Prohibitin Antibody - Product Information**

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

**Prohibitin Antibody - Additional Information****Gene ID 5245**

Application & Usage	Western blotting (0.5-4 µg/ml), immunoprecipitation (10-20 µg/ml) and Immunofluorescence (5-10 µg/ml). However, the optimal conditions should be determined individually. The antibody detects a 33 kDa protein, corresponding to the apparent molecular mass of Prohibitin on SDS-PAGE immunoblots, in samples from human, mouse and rat origins.
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**Other Names**

PHB, phb

**Target/Specificity**

Prohibitin

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions**

**Precautions**

Prohibitin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Prohibitin Antibody - 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:<a href="http://www.uniprot.org/citations/11302691" target="\_blank">11302691</a>, PubMed:<a href="http://www.uniprot.org/citations/20959514" target="\_blank">20959514</a>, PubMed:<a href="http://www.uniprot.org/citations/28017329" target="\_blank">28017329</a>, PubMed:<a href="http://www.uniprot.org/citations/31522117" target="\_blank">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.

**Prohibitin Antibody - 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](#)

**Prohibitin Antibody - Images****Prohibitin Antibody - Background**

Prohibitin is an evolutionarily conserved protein that has anti-proliferative activity. Prohibitin is a 30 kDa, post-synthetically modified protein found in the inner membrane of mitochondria and on the plasma membrane of B cells. It mediates B cell mutation. Prohibitin Controls cell cycle in both transcriptional and post-translational mechanisms. Prohibitin is a potential tumor suppressor. Prohibitin gene mutations are correlated with the breast cancer development and/or progression in over 80% of the cell lines analyzed.