

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

Prohibitin Antibody - Product Information

Application	WB, IF, IP
Primary Accession	P35232
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: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.

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.