

PHB Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP2710c**Specification**

PHB Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P35232](#)**PHB Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5245**Other Names**
Prohibitin, PHB**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2710c](/products/AP2710c) was selected from the Center region of human PHB. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PHB Antibody (Center) Blocking Peptide - 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](http://www.uniprot.org/citations/11302691), PubMed: [20959514](http://www.uniprot.org/citations/20959514), PubMed: [28017329](http://www.uniprot.org/citations/28017329), PubMed: [31522117](http://www.uniprot.org/citations/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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PHB Antibody (Center) Blocking Peptide - Images**PHB Antibody (Center) Blocking Peptide - 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) Blocking Peptide - 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)