

**PHB Antibody (C-term E194) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2710d****Specification**

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**PHB Antibody (C-term E194) Blocking Peptide - Product Information**Primary Accession [P35232](#)**PHB Antibody (C-term E194) Blocking Peptide - Additional Information****Gene ID** 5245**Other Names**  
Prohibitin, PHB**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2710d](/products/AP2710d) was selected from the C-term 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 (C-term E194) 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 (C-term E194) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**PHB Antibody (C-term E194) Blocking Peptide - Images****PHB Antibody (C-term E194) 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 (C-term E194) 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)