

Anti-Prohibitin Antibody

Catalog # ABO11235

Product Information

Application	WB, IHC-P, ICC
Primary Accession	P35232
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Prohibitin(PHB) detection. Tested with WB, IHC-P, ICC in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5245
Other Names	Prohibitin, PHB
Calculated MW	29804
Application Details	Immunocytochemistry , 0.5-1 μ g/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Mitochondrion inner membrane .
Tissue Specificity	Widely expressed in different tissues.
Source	Eukaryota
Protein Name	Prohibitin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Prohibitin(240-256aa KLEAAEDIAYQLSRN), identical to the related rat and mouse sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage	At -20 °C for one year. After r° Constitution, at 4 °C for one month. It° Can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.
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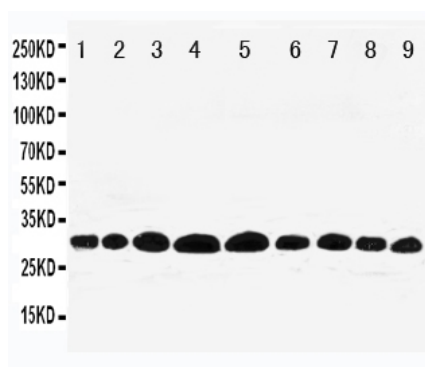
Protein Information

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.

Background

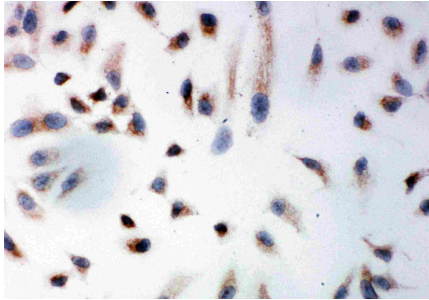
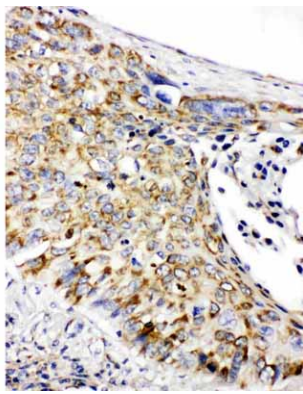
PHB(Prohibitin), also known as PHB1, is a protein that in humans is encoded by the PHB gene. White et al.(1991) mapped the PHB gene to chromosome 17 by analysis of human-mouse somatic cell hybrid cell lines using a genomic fragment of human prohibitin DNA isolated from a library using the rat prohibitin cDNA clone. By in situ hybridization, they localized the gene to 17q21. Sato et al.(1992) isolated the human homolog of the rat prohibitin gene and mapped it to 17q12-q21 by in situ hybridization. Proliferation of tumor cells depends on new blood vessel formation(angiogenesis) that accompanies malignant progression. Anticancer therapies using angiogenesis inhibitors or cytotoxic agents targeted to the vasculature of tumors have been evaluated in clinical trials. Although white fat is a nonmalignant tissue, it has the capability to quickly proliferate and expand. Furthermore, it is highly vascularized. Rupnick et al.(2002) showed that nonspecific angiogenesis inhibitors can prevent the development of obesity of mice.

Images



Anti-Prohibitin antibody, ABO11235, Western blotting
 Lane 1: Rat Lung Tissue Lysate
 Lane 2: Rat Skeletal Muscle Tissue Lysate
 Lane 3: Rat Brain Tissue Lysate
 Lane 4: Rat Kidney Tissue Lysate
 Lane 5: HELA Cell Lysate
 Lane 6: MCF-7 Cell Lysate
 Lane 7: PC-12 Cell Lysate
 Lane 8: A549 Cell Lysate
 Lane 9: SMMC Cell Lysate

Anti-Prohibitin antibody, ABO11235, IHC(P)
 IHC(P): Human Lung Cancer Tissue



Anti-Prohibitin antibody, ABO11235, ICCICC: HELA Cell

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