

Datasheet

PHB polyclonal antibody

Catalog Number: PAB2547

Regulatory Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of PHB.

Immunogen: A synthetic peptide (conjugated with KLH) corresponding to amino acids 99-129 at N-terminus of human PHB.

Host: Rabbit

Reactivity: Human

Applications: Flow Cyt, IHC-P, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Form: Liquid

Purification: Protein A purification

Recommend Usage: Western Blot (1:1000)
Immunohistochemistry (1:50-100)
Flow cytometry (1:10-50)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.09% sodium azide)

Storage Instruction: Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 5245

Gene Symbol: PHB

Gene Alias: PHB1

Gene Summary: Prohibitin is an evolutionarily conserved gene that is ubiquitously expressed. It is thought to be a negative regulator of cell proliferation

and may be a tumor suppressor. Mutations in PHB have been linked to sporadic breast cancer. Prohibitin is expressed as two transcripts with varying lengths of 3' untranslated region. The longer transcript is present at higher levels in proliferating tissues and cells, suggesting that this longer 3' untranslated region may function as a trans-acting regulatory RNA. [provided by RefSeq]

References:

1. Prohibitin silencing reverses stabilization of mitochondrial integrity and chemoresistance in ovarian cancer cells by increasing their sensitivity to apoptosis. Gregory-Bass RC, Olatinwo M, Xu W, Matthews R, Stiles JK, Thomas K, Liu D, Tsang B, Thompson WE. Int J Cancer. 2008 May 1;122(9):1923-30.
2. The PHB1/2 phosphocomplex is required for mitochondrial homeostasis and survival of human T cells. Ross JA, Nagy ZS, Kirken RA. J Biol Chem. 2008 Feb 22;283(8):4699-713. Epub 2007 Dec 17.
3. Assignment of the human prohibitin gene (PHB) to chromosome 17 and identification of a DNA polymorphism. White JJ, Ledbetter DH, Eddy RL Jr, Shows TB, Stewart DA, Nuell MJ, Friedman V, Wood CM, Owens GA, McClung JK, et al.. Genomics. 1991 Sep;11(1):228-30.