PHB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PHB, Polyclonal Antibody
Full Product Name	PHB Polyclonal Antibody
Product Gene Name	anti-PHB antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	17kDa; 29kDa
OMIM	176705
3D Structure	ModBase 3D Structure for P35232
Immunogen	Recombinant protein of human PHB (NP_002625.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PHB antibody	Western Blot (WB)
Application Notes for anti-PHB antibody	WB: 1:500-1:2000
Related Product Information for anti-PHB antibody	This gene is evolutionarily conserved, and its product is proposed to play a role in human cellular senescence and tumor suppression. Antiproliferative activity is reported to be localized to the 3' UTR, which is proposed to function as a trans-acting regulatory RNA. Several pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-PHB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PHB purchase	MBS8566099 is an antibody targeting PHB. Also known as PHB Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PHB. It may not necessarily be applicable to this product.

NCBI GI #	246483
NCBI GeneID	5245
NCBI Accession #	AAB21614.1
UniProt Primary Accession #	P35232

UniProt Related Accession #	P35232
NCBI Official Full Name	prohibitin
NCBI Official Synonym Full Names	prohibitin
NCBI Official Symbol	PHB
NCBI Official Synonym Symbols	PHB1; HEL-215; HEL-S-54e
UniProt Protein Name	Prohibitin
Protein Family	Prohibitin
UniProt Gene Name	PHB
UniProt Entry Name	PHB_HUMAN
NCBI Protein Information	prohibitin
UniProt Comments for PHB	PHB: a pleiotropic membrane protein that suppresses cell proliferation, apoptosis and senescence. It plays a role both in maintaining mitochondrial integrity and in cell cycle regulation. Expression increases approximately 3-fold upon entry into G1 phase compared with other phases of the cell cycle. It helps prevent ROS-induced senescence and its expression decreases heterogeneously during cellular aging. Helps maintain the angiogenic capacity of endothelial cells. Up-regulated during activation of primary human T cells via CD3/CD28 pathways. Present in multiple cellular compartments. Large assemblies of PHB and PHB2 localize in the inner membrane of mitochondria. Acts as a mitochondrial chaperone protein, regulates mitochondrial morphogenesis, and helps regulate the organization of mitochondrial DNA. Reported to target lipid rafts. In the nucleus, it has been reported to interact with various transcription factors, modulating their activity. A potential tumor suppressor that functions as a potent transcriptional corepressor for estrogen receptor alpha. It is downregulated by androgens, and represses androgen receptor activity. Co-localizes with Rb in the nucleus and recruits N-CoR and HDAC1 for transcriptional repression. In vivo promoter occupancy studies have suggested that the PHB gene is a direct target of c-Myc. May bind to and enhance the transcriptional activity of p53. Both Phb and Phb2 are present in the circulation and can be internalized by cultured cells. Overexpressed in endometrioid ovarian adenocarcinoma and papillary serous ovarian carcinoma. Mutated in sporadic breast cancer. Protein type: Transcription, coactivator/corepressor; Apoptosis; Oncoprotein; Mitochondrial; Chaperone; Nuclear receptor co-regulator; Motility/polarity/chemotaxis; Cell cycle regulation Chromosomal Location of Human Ortholog: 17q21 Cellular Component: nucleoplasm; membrane; mitochondrion; integral to plasma membrane; mitochondrial inner membrane; cytoplasm; nucleus Molecular Function: protein binding; enzyme binding; histone deacetylase binding Biological Process: transcription from RNA polymerase II promoter; osteoblast differentiation; regulation of apoptosis; negative regulation of cell proliferation; progesterone receptor signaling pathway; regulation of transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; histone deacetylation; negative regulation of cell growth; negative regulation of transcription from RNA polymerase II promoter; signal transduction; negative regulation of transcription, DNA-dependent Disease: Breast Cancer
Research Articles on PHB	**1.** PHB (prohibitin) expression observed to increase in pancreatic ductal adenocarcinoma (PDAC), tissues, and patient sera. Its expression negatively correlates with overall patient survival.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/phb/8566099