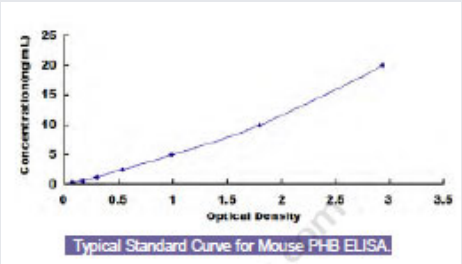
Prohibitin (PHB) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Prohibitin (PHB), ELISA Kit
Full Product Name	Mouse Prohibitin (PHB) ELISA Kit
Product Gene Name	PHB elisa kit
Species Reactivity	Mouse
Assay Type	Sandwich
Samples	Tissue homogenates and other biological fluids.
Detection Range	0.312-20ng/mL
Sensitivity	0.097ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of PHB. No significant cross-reactivity or interference between PHB and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level PHB were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PHB were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	29,820 Da
3D Structure	ModBase 3D Structure for P67778
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for PHB elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of PHB in mouse tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to PHB. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to PHB. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain PHB, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of PHB in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of PHB elisa kit 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	MBS450542 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Prohibitin (PHB) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PHB. The ELISA analytical biochemical technique of the MBS450542 kit is based on PHB antibody-PHB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PHB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PHB. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of PHB elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	6679299
NCBI GeneID	18673
NCBI Accession #	NP_032857.1
UniProt Primary Accession #	P67778
UniProt Secondary Accession #	P24142; Q3UB75; Q5SQG4
UniProt Related Accession #	P67778
GenBank Nucleotide #	NM_008831.4
NCBI Official Full Name	prohibitin
NCBI Official Synonym Full Names	prohibitin
NCBI Official Symbol	Phb
NCBI Official Synonym Symbols	Bap32
UniProt Protein Name	Prohibitin
UniProt Synonym Protein Names	B-cell receptor-associated protein 32; BAP 32
Protein Family	Prohibitin
UniProt Gene Name	Phb
UniProt Synonym Gene Names	BAP 32
NCBI Protein Information	prohibitin
UniProt Comments for PHB	Prohibitin inhibits DNA synthesis. It has a role in regulating proliferation. As yet it is unclear if the protein or the mRNA exhibits this effect. May play a role in regulating mitochondrial respiration activity and in aging ().
Research Articles on PHB	**1.** Study shows that PHB is highly expressed in white adipose tissue and liver which expression is regulated by estrogen.
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.
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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.

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