Datasheet for ABIN6940306

anti-Prohibitin antibody (AA 167-261)

6 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Prohibitin (PHB)
Binding Specificity:	AA 167-261
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Prohibitin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human PHB protein fragment (aa167-261) (exact sequence is proprietary)
Clone:	PHB-3194
Isotype:	IgG2b kappa
Specificity:	Recognizes a protein of 30 kDa which is identified as Prohibitin, an evolutionarily conserved protein with homologues found in yeast to man. It is located in the inner membrane of mitochondria. Although prohibitin mRNA and protein expression occurs throughout the cell cycle, maximum levels are detected during the G1/S phase transition and minimum levels are seen in S phase and the G2/mitosis boundary. Prohibitin is located exclusively in the mitochondria with the highest concentration on the inner membrane. Prohibitin is an ideal mitochondrial marker. It shows antiproliferative activity and has been proposed to play a role in

Product Details

	normal cell cycle regulation, replicative senescence, cellular immortalization, and tumor suppression.
Purification:	Purified by Protein A/G

Target Details

Target:	Prohibitin (PHB)
Alternative Name:	PHB (PHB Products)
Molecular Weight:	30kDa
Gene ID:	5245
UniProt:	P35232
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling

Application Details

Application Notes:	Positive Control: Ramos, Jurkat, HEK293, K562, HepG2, A431 or MCF-7 cells (IF). Liver, Kidney, Heart or Endometrium (IHC). Known Application: Western Blot (1-2 µg/mL), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

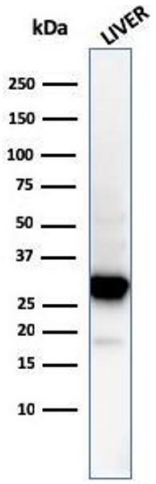
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

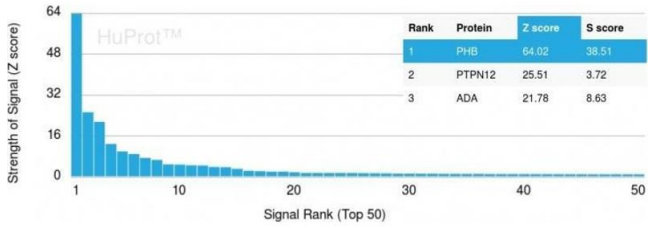
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



Western Blotting

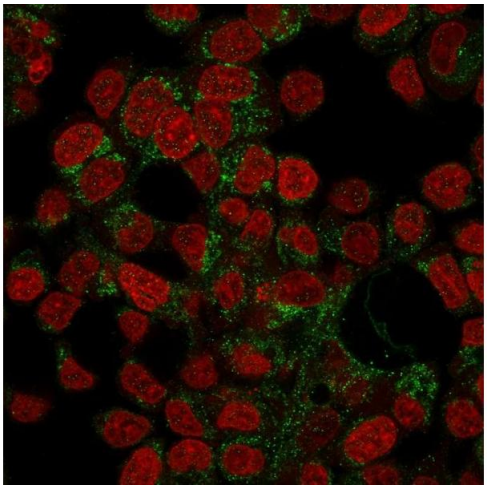
Image 1. Western Blot Analysis of human liver tissue lysate using Prohibitin Mouse Monoclonal Antibody (PHB/3194).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Monospecific Mouse Monoclonal Antibody to Prohibitin (PHB/3194). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Images



Immunofluorescence

Image 3. Confocal Immunofluorescence of HepG2 cells stained with Prohibitin Mouse Monoclonal Antibody (PHB/3194) labeled with CF488 (Green); Reddot is used to label the nuclei.

Please check the product details page for more images. Overall 6 images are available for ABIN6940306.