

Datasheet for ABIN543509

anti-Prohibitin antibody (AA 99-129)

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Overview

Quantity:	400 µL
Target:	Prohibitin (PHB)
Binding Specificity:	AA 99-129
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Prohibitin antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	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.
Cross-Reactivity:	Human

Target Details

Target:	Prohibitin (PHB)
Alternative Name:	Prohibitin / PHB (PHB Products)
Gene ID:	5245

Target Details

Pathways: [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#)

Application Details

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

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: In PBS (0.09 % sodium 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.

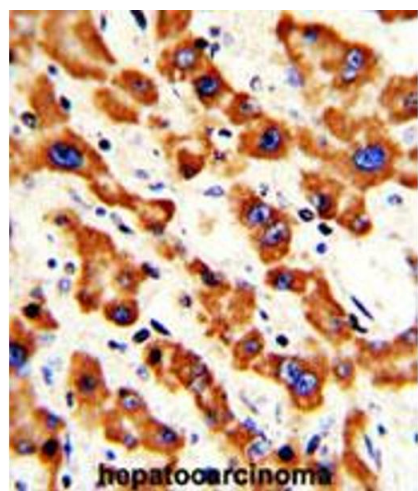
Storage: 4 °C, -20 °C

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

Publications

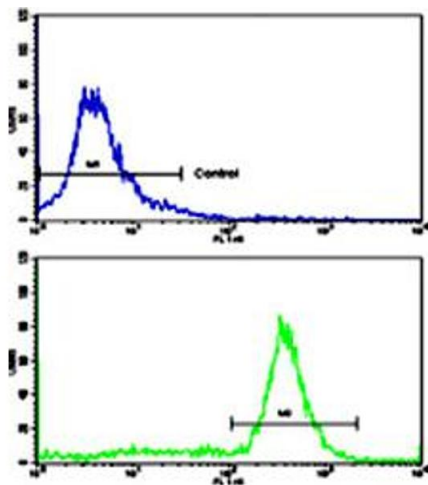
Product cited in: Ross, Nagy, Kirken: "The PHB1/2 phosphocomplex is required for mitochondrial homeostasis and survival of human T cells." in: **The Journal of biological chemistry**, Vol. 283, Issue 8, pp. 4699-713, (2008) ([PubMed](#)).

Gregory-Bass, Olatinwo, Xu, Matthews, Stiles, Thomas, Liu, Tsang, Thompson: "Prohibitin silencing reverses stabilization of mitochondrial integrity and chemoresistance in ovarian cancer cells by increasing their sensitivity to apoptosis." in: **International journal of cancer. Journal international du cancer**, Vol. 122, Issue 9, pp. 1923-30, (2008) ([PubMed](#)).



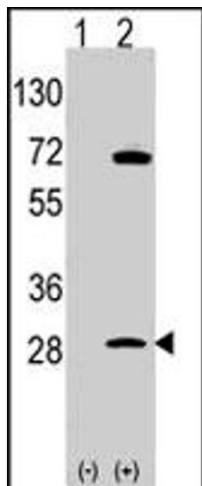
Immunohistochemistry

Image 1. Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with PHB polyclonal antibody , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry

Image 2. Flow cytometric analysis of ATDC5 cells using PHB polyclonal antibody (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 3. Western blot analysis of PHB1 (arrow) using rabbit PHB polyclonal antibody . 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PHB1 gene (Lane 2) (Origene Technologies).