

Datasheet for ABIN7659018

**anti-Prohibitin antibody (AA 167-261) (CF®405S)**[Go to Product page](#)

## Overview

Quantity:	100 µL
Target:	Prohibitin (PHB)
Binding Specificity:	AA 167-261
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Prohibitin antibody is conjugated to CF®405S
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))

## Product Details

Purpose:	Prohibitin (Mitochondrial Marker)(PHB/3231), CF405S conjugate
Immunogen:	Recombinant human PHB protein fragment (aa167-261)
Clone:	PHB-3231
Isotype:	IgG1, kappa
Characteristics:	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

## Product Details

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mitochondrial marker. It shows antiproliferative activity and has been proposed to play a role in normal cell cycle regulation, replicative senescence, cellular immortalization, and tumor suppression. Primary antibodies are available purified, or with a selection of fluorescent CF® Dyes and other labels. CF® Dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

## Target Details

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Target:	Prohibitin (PHB)
Alternative Name:	Prohibitin
Background:	Synonyms: Epididymis luminal protein 215, Epididymis secretory sperm binding protein Li 54e, HEL 215, HEL S 54e, PHB, PHB1, Prohibitin Gene Symbol: PHB
Molecular Weight:	~30 kDa
Gene ID:	5245
UniProt:	<a href="#">P35232</a>
Pathways:	<a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a>

## Application Details

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Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Positive Control: Ramos, Jurkat, HEK293, K562, HepG2, A431 or MCF-7 cells (IF). Liver, Kidney, Heart or Endometrium (IHC).
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	0.1 mg/mL
Buffer:	PBS, 0.1 % BSA, 0.05 % azide
Preservative:	Sodium azide

## Handling

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Handling Advice: Protect from light

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Storage: 4 °C

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Storage Comment: Stable at room temperature or 37°C for 7 days.  
Protect from light  
Store at 2 to 8°C. Protect fluorescent conjugates from light

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Expiry Date: 24 months