

Datasheet for ABIN6938171
anti-Prohibitin antibody (AA 167-261)



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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), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant human PHB protein fragment (aa167-261) (exact sequence is proprietary)
Clone:	PHB-3231
Isotype:	IgG1 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.
Cross-Reactivity (Details):	Human.
Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target:	Prohibitin (PHB)
Alternative Name:	PHB (PHB Products)
Background:	Epididymis luminal protein 215, Epididymis secretory sperm binding protein Li 54e, HEL 215, HEL S 54e, PHB, PHB1, Prohibitin, Prohibitin (Mitochondrial Marker) Cellular localisation: Cytoplasmic (Mitochondria)
Molecular Weight:	30kDa
Gene ID:	5245, 514303
UniProt:	P35232
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway , Regulation of Intracellular Steroid Hormone Receptor Signaling

Application Details

Application Notes:	Known_Application: Western Blot (1-2 µg/mL), Immunofluorescence (1-2 µg), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined. 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

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free

Handling

Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months