

Datasheet for ABIN6940303

anti-Prohibitin antibody (AA 167-261)



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3 Images

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), ELISA, Staining Methods (StM), Coating (Coat)

Product Details

Immunogen:	Recombinant human PHB protein fragment (aa167-261) (exact sequence is proprietary)
Clone:	SPM311
Isotype:	IgG2c 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: HepG2, A431 or MCF-7 cells. Liver, Kidney, Heart or Endometrium.
Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), Western Blot (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

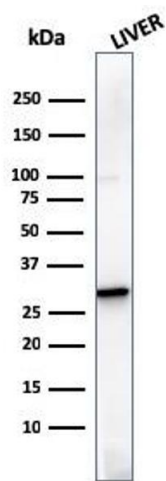
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

Handling

is stable for 24 months. Non-hazardous. No MSDS required.

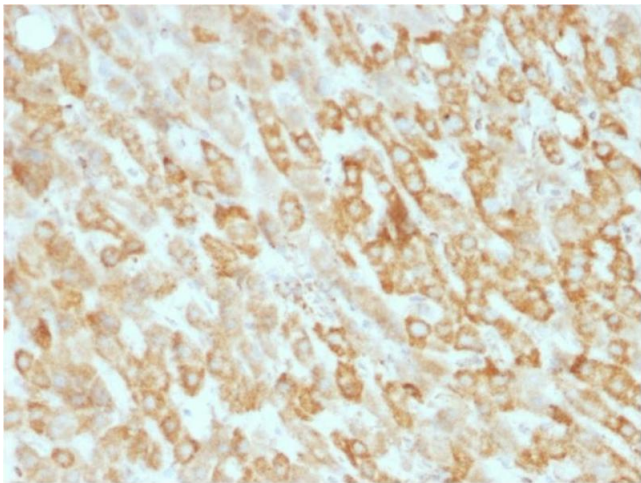
Expiry Date: 24 months

Images



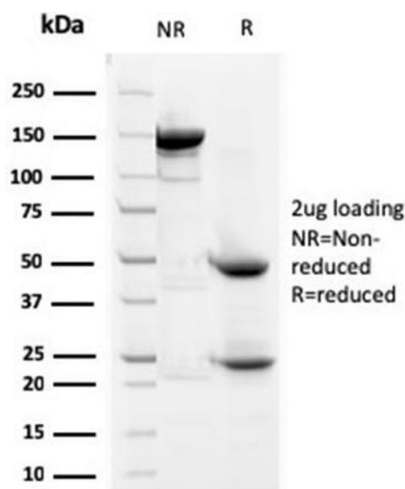
Western Blotting

Image 1. Western Blot Analysis of human liver tissue lysate using Prohibitin Mouse Monoclonal Antibody (SPM311).



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Hepatic Carcinoma stained with Prohibitin Mouse Monoclonal Antibody (SPM311).



SDS-PAGE

Image 3. SDS-PAGE Analysis Purified Prohibitin Mouse Monoclonal Antibody (SPM311). Confirmation of Purity and Integrity of Antibody.