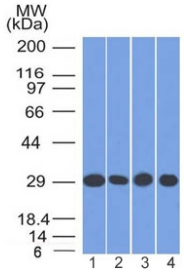
PHB Antibody / Prohibitin [clone PHB/1882] (V3518)

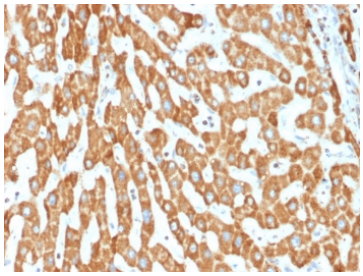
Catalog No.	Formulation	Size
V3518-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3518-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3518SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3518IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

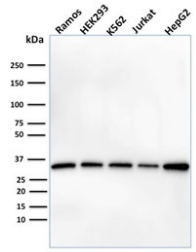
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	PHB/1882
Purity	Protein G affinity chromatography
UniProt	P35232
Localization	Cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This PHB antibody is available for research use only.



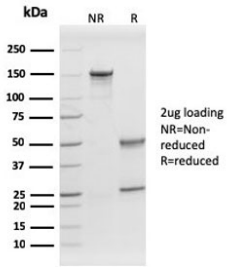
Western blot testing of human 1) A549, 2) K562, 3) A431 and 4) MCF7 cell lysate with PHB antibody (clone PHB/1882). Expected molecular weight ~30 kDa.



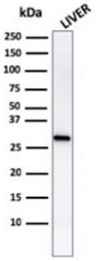
IHC testing of FFPE human liver tissue with PHB antibody (clone PHB/1882). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human cell lysates with PHB antibody (clone PHB/1882). Expected molecular weight ~30 kDa.



SDS-PAGE analysis of purified, BSA-free PHB antibody (clone PHB/1882) as confirmation of integrity and purity.



Western blot testing of human liver lysate with Prohibitin antibody (clone PHB/1882). Expected molecular weight ~30 kDa.

Description

This antibody recognizes a protein of 30kDa which is identified as Prohibitin (PHB), an evolutionarily conserved protein with homologues found in yeast to man. It is located in the inner membrane of mitochondria. Although PHB 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. It is an ideal mitochondrial marker. It shows anti-proliferative activity and has been proposed to play a role in normal cell cycle regulation, replicative senescence, cellular immortalization, and tumor suppression.

Application Notes

Optimal dilution of the PHB antibody should be determined by the researcher.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A recombinant human partial protein corresponding to amino acids 167-261 was used as the immunogen for the PHB antibody.

Storage

Store the PHB antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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