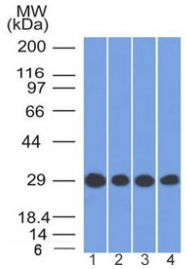
# Prohibitin Antibody / PHB [clone PHB/1881] (V3517)

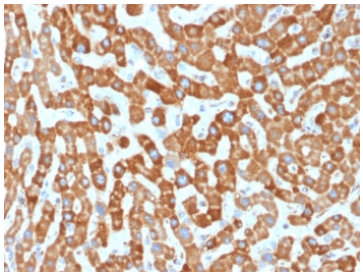
| Catalog No. | Formulation | Size |
|---|---|---|
| V3517-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3517-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V3517SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V3517IHC-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**

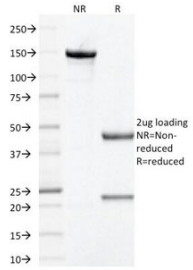
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2c, kappa |
| **Clone Name** | PHB/1881 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P35232 |
| **Localization** | Cytoplasmic |
| **Applications** | Western blot: 0.5-2ug/ml<br>Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT |
| **Limitations** | This Prohibitin antibody is available for research use only. |



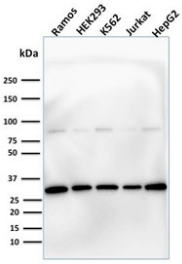

Western blot testing of human 1) HEK293, 2) Jurkat, 3) HepG2 and 4) U-87 MG cell lysate with Prohibitin antibody (clone PHB/1881). Expected molecular weight ~30 kDa.



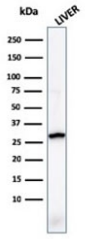
IHC testing of FFPE human liver tissue with Prohibitin antibody (clone PHB/1881). Required HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.




SDS-PAGE Analysis of Purified, BSA-Free Prohibitin Antibody (clone PHB/1881). Confirmation of Integrity and Purity of the Antibody.




Western blot testing of human cell lysates with Prohibitin antibody (clone PHB/1881). Expected molecular weight ~30 kDa.




Western blot testing of human liver lysate with Prohibitin antibody (clone PHB/1881). 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 Prohibitin 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 Prohibitin antibody.

## Storage

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


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