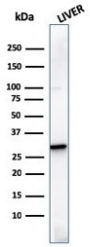
# Prohibitin Antibody / PHB [clone SPM311] (V8012)

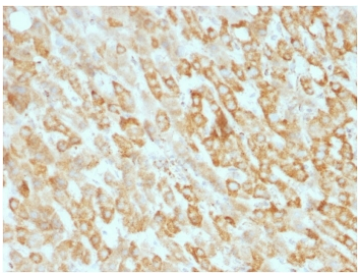
| Catalog No. | Formulation | Size |
|---|---|---|
| V8012-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V8012-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V8012SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

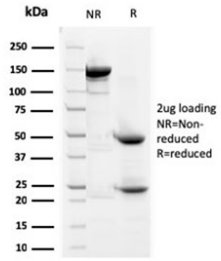
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG2c, kappa |
| **Clone Name** | SPM311 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P35232 |
| **Localization** | Cytoplasmic |
| **Applications** | Western Blot : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml |
| **Limitations** | This Prohibitin antibody is available for research use only. |




Western blot testing of human liver lysate with Prohibitin antibody (clone SPM311). Expected molecular weight ~30 kDa.



IHC testing of FFPE human hepatic carcinoma with Prohibitin antibody (clone SPM311). Required HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.




SDS-PAGE analysis of purified, BSA-free Prohibitin antibody (clone SPM311) as confirmation of integrity and purity.

## Description

Recognizes a protein of 30kDa 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 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.

## Immunogen

A recombinant human partial protein (amino acids 167-261) was used as the immunogen for this Prohibitin antibody.

## Storage

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

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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