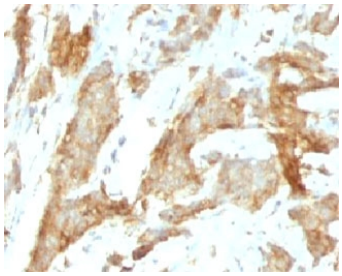
# gp96 Antibody / GRP94 / HSP90B1 [clone SPM249] (V2909)

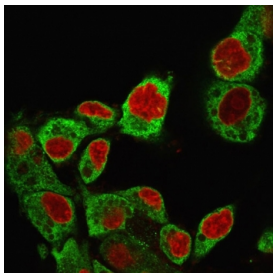
| Catalog No. | Formulation | Size |
|---|---|---|
| V2909-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V2909-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V2909SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |
| V2909IHC-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

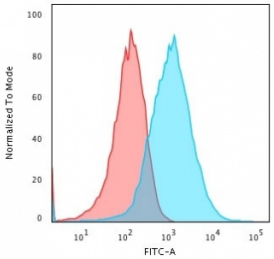
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Clonality** | Monoclonal (rat origin) |
| **Isotype** | Rat IgG2a, kappa |
| **Clone Name** | SPM249 |
| **Purity** | Protein G affinity chromatography |
| **UniProt** | P14625 |
| **Localization** | Cytoplasmic and nuclear |
| **Applications** | Flow Cytometry : 1-2ug/10^6 cells<br>Immunofluorescence : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| **Limitations** | This gp96 antibody is available for research use only. |



IHC analysis of formalin-fixed, paraffin-embedded human breast carcinoma stained with gp96 antibody (SPM249).



Immunofluorescent staining of permeabilized human HepG2 cells with gp96 antibody (clone SPM249, green) and Reddot nuclear stain (red).




Flow cytometry testing of PFA-fixed human HepG2 cells with gp96 antibody (clone SPM249); Red=isotype control, Blue= gp96 antibody.

## Description

Recognizes a protein of 94kDa, which is identified as the glucose-regulated protein 94 (grp94) and also tumor rejection antigen (gp96). Gp96 shows a high degree of sequence homology with the heat shock protein 90 (hsp90). This mAb is highly specific and shows minimal cross-reaction with other members of the HSP90 family. Grps are a class of proteins unresponsive to heat shock and are induced by glucose deprivation. Gp96 has been briefly studied as a prognostic factor in breast cancer.

## Application Notes

Optimal dilution of the gp96 antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min followed by cooling at RT for 20 min.
2. 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

Purified glucose regulated protein 94 from chicken oviducts was used as the immunogen for the gp96 antibody.

## Storage

Store the gp96 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).