

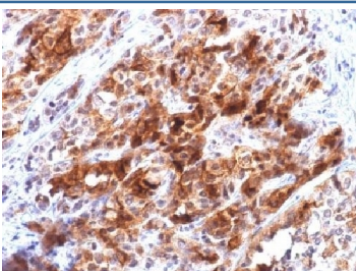
## Recombinant GPC3 Antibody / Glypican-3 [clone rGPC3/863] (V3714)

| Catalog No.    | Formulation                                                                                     | Size   |
|----------------|-------------------------------------------------------------------------------------------------|--------|
| V3714-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 100 ug |
| V3714-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide                      | 20 ug  |
| V3714SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free                                                  | 100 ug |
| V3714IHC-7ML   | Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only* | 7 ml   |

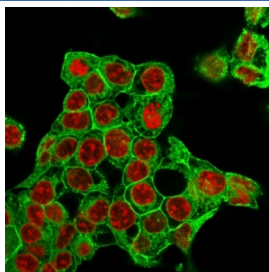
Recombinant **MOUSE MONOCLONAL**

[Bulk quote request](#)

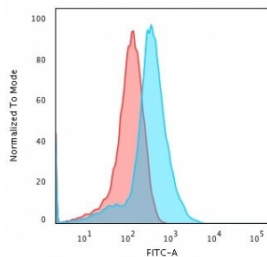
|                    |                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Availability       | 1-3 business days                                                                                                                |
| Species Reactivity | Human                                                                                                                            |
| Format             | Purified                                                                                                                         |
| Clonality          | Recombinant Mouse Monoclonal                                                                                                     |
| Isotype            | Mouse IgG1, kappa                                                                                                                |
| Clone Name         | rGPC3/863                                                                                                                        |
| Purity             | Protein G affinity chromatography                                                                                                |
| UniProt            | P51654                                                                                                                           |
| Localization       | Cytoplasmic                                                                                                                      |
| Applications       | Flow Cytometry : 1-2ug/million cells<br>Immunofluorescence : 1-2ug/ml<br>Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT |
| Limitations        | This recombinant GPC3 antibody is available for research use only.                                                               |



IHC testing of FFPE human hepatocellular carcinoma with recombinant GPC3 antibody (clone rGPC3/863). Required HIER: boil tissue sections in 10mM Tris with 1mM EDTA, pH 9, for 10-20 min followed by cooling at RT for 20 min.



Immunofluorescent staining of methanol-fixed HepG2 cells with recombinant GPC3 antibody (green, clone rGPC3/863) and Reddot nuclear stain (red).

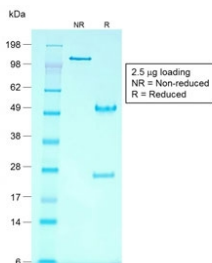


Flow cytometry testing of methanol-fixed human HepG2 cells with recombinant GPC3 antibody (clone rGPC3/863); Red=isotype control, Blue= recombinant GPC3 antibody.

#### Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using recombinant GPC3 antibody (clone rGPC3/863). These results demonstrate the foremost specificity of the rGPC3/863 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free recombinant GPC3 antibody (clone rGPC3/863) as confirmation of integrity and purity.

## Description

Recombinant GPC3 antibody detects glypican 3, a heparan sulfate proteoglycan encoded by the GPC3 gene. Glypican 3 is a cell surface protein tethered to the plasma membrane by a glycosylphosphatidylinositol anchor. It belongs to the glypican family of proteins that modulate signaling pathways by presenting growth factors to their receptors. GPC3 plays a major role in growth regulation and has become a prominent subject in oncology, developmental biology, and hepatology.

During development, glypican 3 contributes to morphogenesis by regulating signaling pathways such as Wnt, Hedgehog, and fibroblast growth factor. Mutations in GPC3 cause Simpson-Golabi-Behmel syndrome, a congenital overgrowth disorder, illustrating its role in growth control. In adults, GPC3 expression is largely silenced in most tissues but re-expressed in malignancies, particularly hepatocellular carcinoma. This restricted expression pattern makes it a valuable diagnostic and therapeutic target.

The Recombinant GPC3 antibody clone rGPC3/863 provides reproducible and highly specific detection of glypican 3. Recombinant manufacturing eliminates variability between lots, ensuring consistent results across studies. Clone

rGPC3/863 has been widely applied in hepatocellular carcinoma research, where GPC3 serves as a biomarker for diagnosis and prognosis. Publications have documented the use of this clone in peer-reviewed studies investigating GPC3 expression patterns in liver cancer and in developmental contexts, reinforcing its credibility as a reliable reagent.

Research using clone rGPC3/863 has clarified how GPC3 promotes oncogenesis by modulating growth factor availability and Wnt signaling. Elevated expression correlates with tumor growth, poor prognosis, and resistance to therapy. Because of its limited expression in normal adult tissues, GPC3 is being pursued as a therapeutic target, including antibody-drug conjugates and CAR T cell therapies. This antibody supports ongoing work into both basic biology and translational applications.

NSJ Bioreagents supplies this Recombinant GPC3 antibody to enable studies in cancer biology and developmental regulation. Alternate names include glypican-3 antibody, DGSX antibody, MXR7 antibody, and heparan sulfate proteoglycan GPC3 antibody, reflecting the diverse terminology used in research.

## Application Notes

Optimal dilution of the recombinant GPC3 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.
2. View the non-recombinant version of this [GPC3 antibody](#).

## Immunogen

Recombinant full-length human Glypican 3 protein was used as the immunogen for the recombinant GPC3 antibody.

## Storage

Store the recombinant GPC3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).