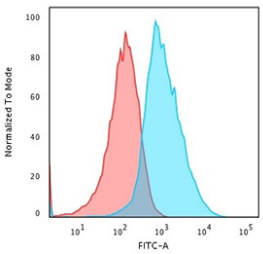
Glypican 3 Antibody [clone SPM595] (V2537CF555)

Catalog No.	Formulation	Size
V2537CF555-100T	500 ul at 0.1 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 Tests

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	CF555 Conjugate
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM595
Purity	Protein G affinity chromatography
UniProt	P51654
Localization	Cytoplasmic
Applications	Flow Cytometry : 5ul/test/million cells in 0.1ml Immunofluorescence : 1-2ug/ml
Limitations	This Glypican 3 antibody is available for research use only.



Glypican 3 antibody (clone SPM595) used to staining PFA-fixed human HepG2 cells.

Description

The Glypican 3 (GPC3) protein is a heparan sulfate proteoglycan anchored to the cell membrane through a glycosylphosphatidylinositol (GPI) linkage. It participates in the regulation of major signaling pathways such as Wnt, Hedgehog, and fibroblast growth factor, which control cell growth and differentiation. A CF555 Glypican 3 antibody provides the added advantage of direct fluorescence labeling, making it well suited for imaging applications.

GPC3 expression is prominent during embryonic development, where it helps guide tissue morphogenesis and organ growth. In healthy adults, levels of Glypican 3 are usually very low, but re-expression occurs in several tumor types, most notably hepatocellular carcinoma, hepatoblastoma, and certain testicular cancers. This makes a CF555 Glypican 3 antibody an important reagent for investigating tumor biology, biomarker discovery, and cancer diagnostics.

The CF555 dye produces a bright orange-red fluorescence signal, allowing for sensitive detection in immunofluorescence microscopy, flow cytometry, and other fluorescence-based techniques. Using a CF555 Glypican 3 antibody eliminates the need for secondary antibody staining and helps reduce background signal while improving workflow efficiency.

NSJ Bioreagents offers a CF555-conjugated Glypican 3 antibody designed to deliver consistent, reproducible results. Researchers can apply this antibody to studies in cancer research, developmental biology, and signaling pathway analysis where direct fluorescent detection is beneficial.

Application Notes

Optimal dilution of the Glypican 3 antibody should be determined by the researcher.

Immunogen

A recombinant fragment containing amino acids 511-580 from the human protein was used as the immunogen for the Glypican-3 antibody.

Storage

Store the Glypican 3 antibody at 2-8oC, protected from light.