

Datasheet for ABIN6939525
anti-Glypican 3 antibody

6 Images

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Overview

Quantity:	100 µg
Target:	Glypican 3 (GPC3)
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Glypican 3 antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Immunohistochemistry (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant full-length human GPC3 protein
Clone:	GPC3-863
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Glypican 3 (GPC3)
Alternative Name:	GPC3 (GPC3 Products)
Background:	Glypican-3 (GPC3) is a glycosylphosphatidyl inositol-anchored membrane protein, which may also be found in a secreted form. Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatoblastoma, melanoma, testicular germ

Target Details

cell tumors, and Wilm's tumor. In patients with HCC, GPC3 is overexpressed in neoplastic liver tissue and elevated in serum, but is undetectable in normal liver, benign liver, and the serum of healthy donors. GPC3 expression is also found to be higher in HCC liver tissue than in cirrhotic liver or liver with focal lesions such as dysplastic nodules and areas of hepatic adenoma (HA) with malignant transformation. In the context of testicular germ cell tumors, GPC3 expression is up regulated in certain histologic subtypes, specifically yolk sac tumors and choriocarcinoma. A high level of GPC3 expression is also found in some types of embryonal tumors, such as Wilm's tumor and hepatoblastoma, with a low or undetectable expression in normal adjacent tissue. In patients with thyroid cancer, expression of GPC3 is dramatically enhanced in certain types of cancers: 100 % in follicular carcinoma and 70 % in papillary carcinoma. Expression of GPC3 in follicular carcinoma is significantly higher than that of follicular adenoma. In contrast, GPC3 is not expressed in anaplastic carcinoma.

Molecular Weight: 67kDa

Gene ID: 2719

UniProt: [P51654](#)

Pathways: [Glycosaminoglycan Metabolic Process](#)

Application Details

Application Notes: Positive Control: HepG2, 293T cells. Hepatocellular carcinoma.
Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 1 mM EDTA buffer, pH 7.5-8.5, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

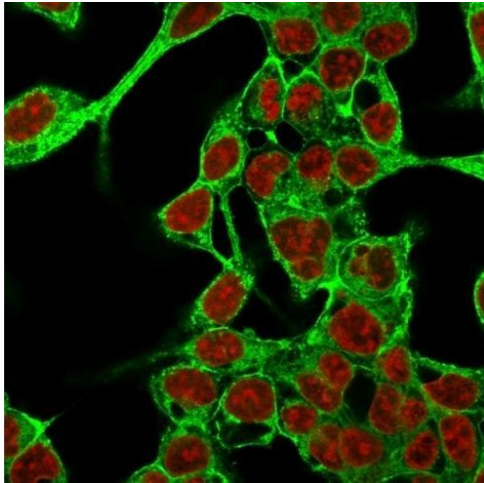
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

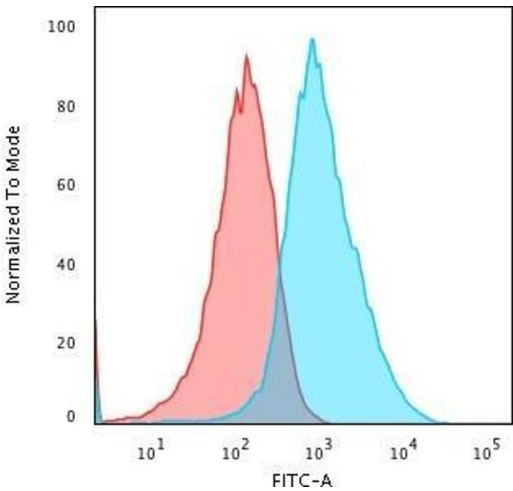
Storage:	4 °C,-80 °C
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



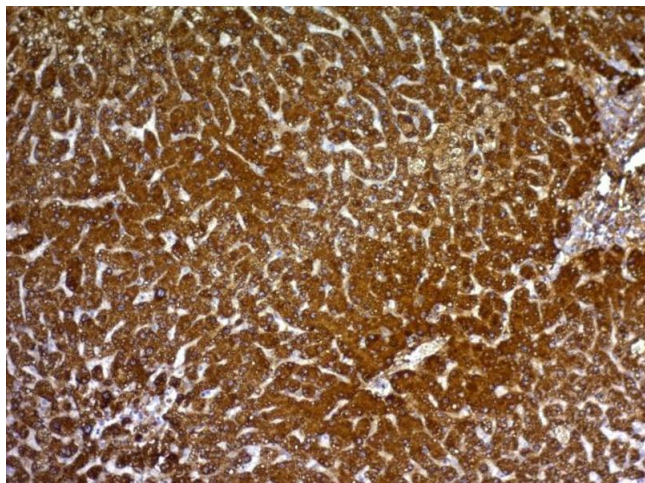
Immunofluorescence

Image 1. Immunofluorescence Analysis of MeOH-fixed HepG2 cells labeling Glypican-3 with Glypican-3 Mouse Monoclonal Antibody (GPC3/863) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)



Flow Cytometry

Image 2. Flow Cytometric Analysis of PFA-fixed HepG2 cells using Glypican-3 Mouse Monoclonal Antibody (GPC3/863) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with Glypican-3 Mouse Monoclonal Antibody (GPC3/863)

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6939525.