

Datasheet for ABIN6939523  
**anti-Glypican 3 antibody (AA 511-580)**

## 5 Images

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## Overview

Quantity:	100 µg
Target:	Glypican 3 (GPC3)
Binding Specificity:	AA 511-580
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Glypican 3 antibody is un-conjugated
Application:	Immunofluorescence (IF), Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (IHC), Staining Methods (StM)

## Product Details

Immunogen:	A recombinant fragment containing amino acids 511-580 of human glypican-3
Clone:	1G12
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

## Target Details

Target:	Glypican 3 (GPC3)
Alternative Name:	GPC3 ( <a href="#">GPC3 Products</a> )
Background:	Glypican-3 (GPC3) is a glycosylphosphatidyl inositol-anchored membrane protein, which may

## Target Details

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 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
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Gene ID:	2719
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UniProt:	<a href="#">P51654</a>
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Pathways:	<a href="#">Glycosaminoglycan Metabolic Process</a>
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## Application Details

Application Notes:	Positive Control: HepG2, 293T cells. Hepatocellular carcinoma. Known Application: Western Blot (1-2 µg/mL)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 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
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Restrictions:	For Research Use only
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## Handling

Concentration:	200 µg/mL
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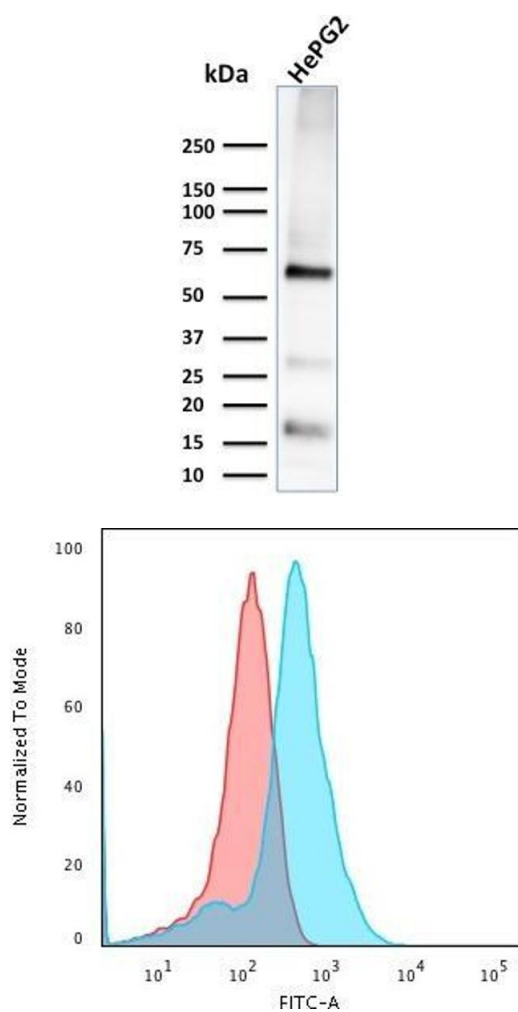
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
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Preservative:	Sodium azide
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## Handling

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

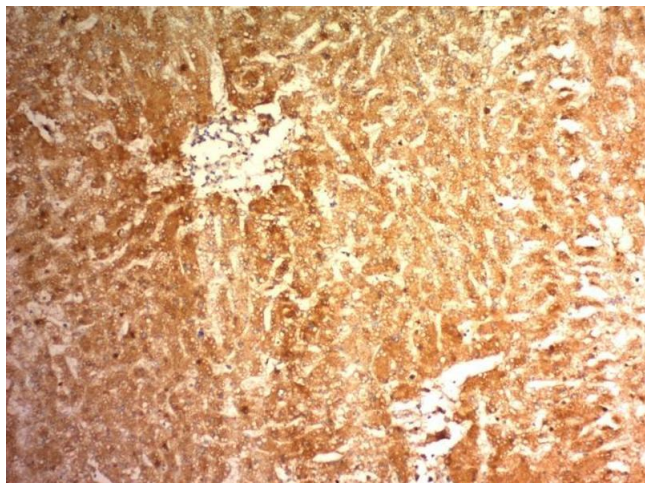


### Western Blotting

**Image 1.** Western Blot Analysis of HepG2 cell lysate using Glypican-3 Monoclonal Antibody (1G12)

### Flow Cytometry

**Image 2.** Flow Cytometric Analysis of MeOH-fixed HepG2 cells using Glypican-3 Monoclonal Antibody (1G12) followed by Goat anti-Mouse-IgG-CF488 (Blue); Isotype Control (Red).



#### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma (HCC) stained with Glypican-3 Monoclonal Antibody (1G12)

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6939523.