

Product Datasheet

Glypican 3 Antibody (1G12)

NBP2-44484-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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Glypican 3 Antibody (1G12)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	1G12
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	67 kDa

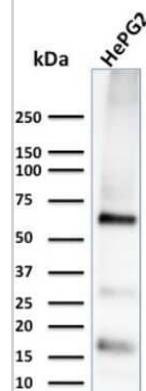
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-47760) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	2719
Gene Symbol	GPC3
Species	Human
Marker	Hepatocellular Carcinoma Marker
Specificity/Sensitivity	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 cell tumors, and Wilms 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.
Immunogen	A recombinant fragment containing amino acids 511-580 of human Glypican 3 (Uniprot: P51654)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunofluorescence
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunofluorescence 0.5 - 1.0 ug/ml
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

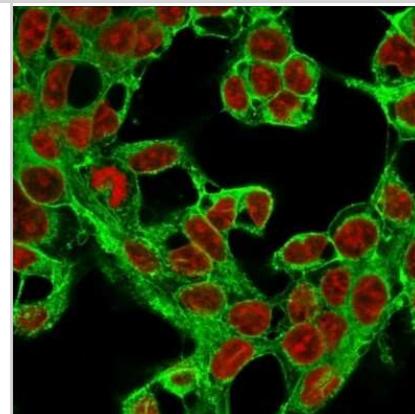


Images

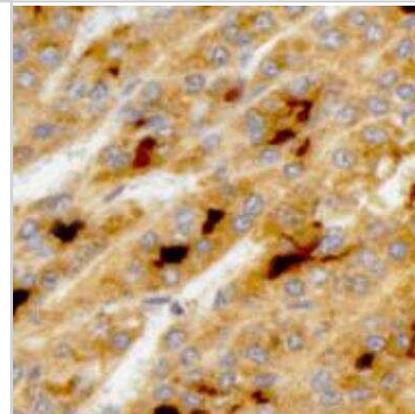
Western Blot: Glypican 3 Antibody (1G12) [NBP2-44484] - Western Blot Analysis of HePG2 cell lysate using Glypican 3 Antibody (1G12)



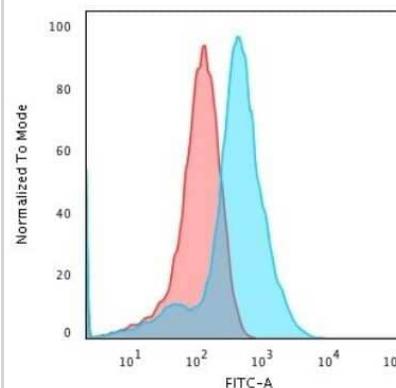
Immunocytochemistry/Immunofluorescence: Glypican 3 Antibody (1G12) [NBP2-44484] - ICC/IF analysis of MeOH-fixed HepG2 cells labeling Glypican-3 with followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot (Red)



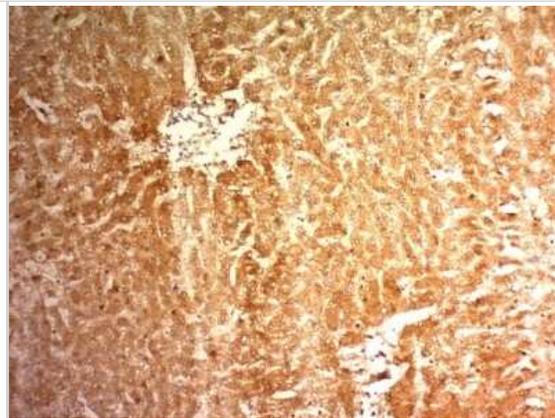
Immunohistochemistry-Paraffin: Glypican 3 Antibody (1G12) [NBP2-44484] - Analysis of human liver tissue using Glypican 3 antibody. Fixed paraffin-embedded sections were deparaffinized. antigen retrieval was done enzymatically. Primary antibody dilution was 1:100. Image from verified customer review.



Flow Cytometry: Glypican 3 Antibody (1G12) [NBP2-44484] - Flow Cytometric Analysis of MeOH-fixed HepG2 cells using Glypican 3 Antibody (1G12) followed by Goat anti- Mouse- IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry-Paraffin: Glypican 3 Antibody (1G12) [NBP2-44484] - Human Hepatocellular Carcinoma stained with Glypican-3 Monoclonal Antibody (1G12)



Publications

Makkouk A, Yang XC, Barca T et al. Off-the-shelf V delta 1 gamma delta T cells engineered with glypican-3 (GPC-3)-specific chimeric antigen receptor (CAR) and soluble IL-15 display robust antitumor efficacy against hepatocellular carcinoma Journal for immunotherapy of cancer 2021-12-01 [PMID: 34916256] (FLOW)



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Products Related to NBP2-44484-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-85226PEP	Glypican 3 Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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