Product Datasheet

Glypican 3 Antibody (rGPC3/863) - Azide and BSA Free
NBP2-54304-100ug

Unit Size: 100 ug

Store at -20 to -80C. Avoid freeze-thaw cycles.

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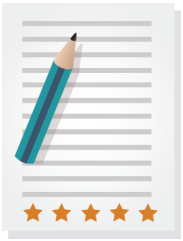


NBP2-54304-100ug

Glypican 3 Antibody (rGPC3/863) - Azide and BSA Free

Product Information

Unit Size	100 ug
Concentration	1 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	rGPC3/863
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	10 mM PBS
Target Molecular Weight	67 kDa

Product Description

Description	1.0 mg/ml of antibody purified by Protein A Column. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-53141). 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, Rat
Marker	Hepatocellular Carcinoma Marker
Specificity/Sensitivity	Glypican-3 (GPC3) is a glycosylphospatidyl 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 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.
Immunogen	Recombinant full-length human Glypican 3 protein (Uniprot: P51654)

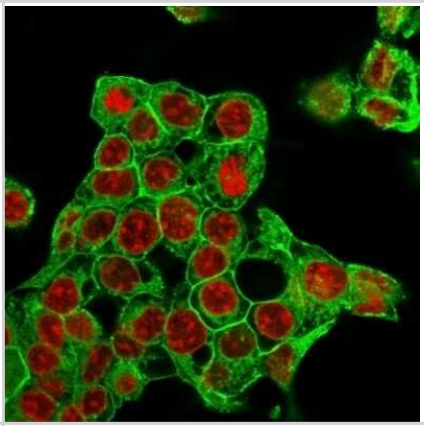
Product Application Details

Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, CyTOF-ready

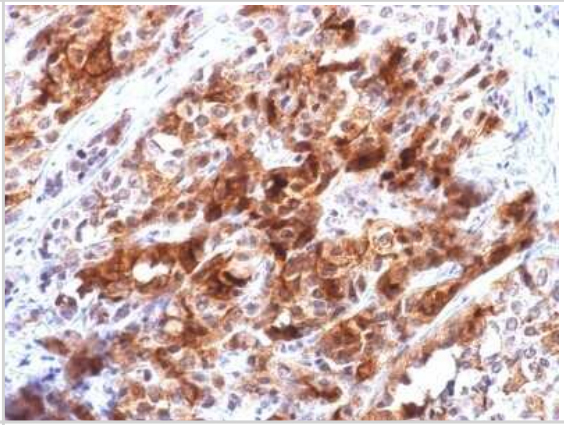
Recommended Dilutions	Flow Cytometry 0.5 - 1 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5 - 1 ug/ml, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, Protein Array, CyTOF-ready
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. 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

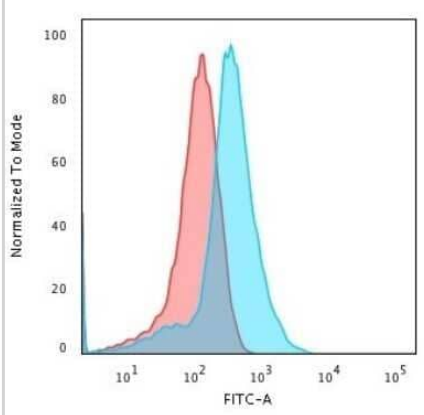
Immunocytochemistry/Immunofluorescence: Glypican 3 Antibody (rGPC3/863) - Azide and BSA Free [NBP2-54304] - Immunofluorescence Analysis of MeOH-fixed HepG2 cells labeling Glypican-3 with followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot (Red).

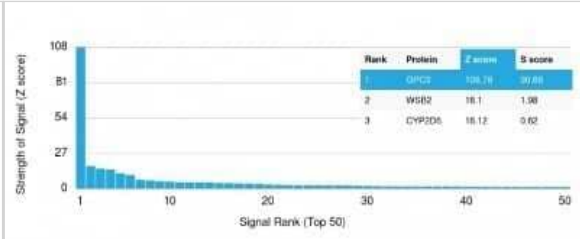
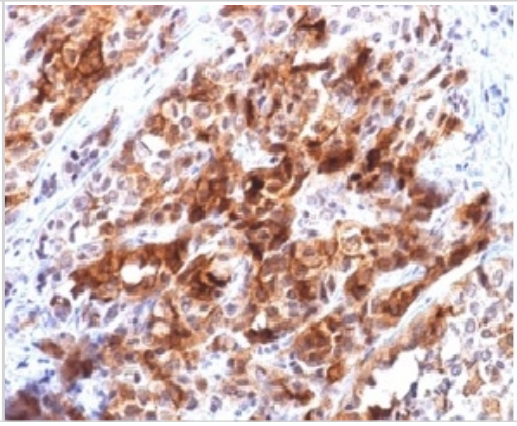


Immunohistochemistry-Paraffin: Glypican 3 Antibody (rGPC3/863) - Azide and BSA Free [NBP2-54304] - Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with Glypican-3 Recombinant Mouse Monoclonal Antibody (rGPC3/863).



Flow Cytometry: Glypican 3 Antibody (rGPC3/863) - Azide and BSA Free [NBP2-54304] - Flow Cytometric Analysis of MeOH-fixed HepG2 cells using Glypican 3 Antibody (rGPC3/863).followed by Goat anti- Mouse-IgG-CF488 (Blue); Isotype Control (Red).



Protein Array: Glypican 3 Antibody (rGPC3/863) - Azide and BSA Free [NBP2-54304] - Analysis of Protein Array containing more than 19,000 full-length human proteins using Glypican 3 Antibody (rGPC3/863) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) 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 targets on 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-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5.	
Formalin-fixed, paraffin-embedded human hepatocellular carcinoma stained with Glypican 3 antibody (rGPC3/863).	

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Products Related to NBP2-54304-100ug

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.

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