## **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         Stora t -20 to -80C. Avoid freeze-thaw cycles.           Clonality         Monoclonal           Clonality         Monoclonal           Clonality         Monoclonal           Clonality         No Preservative           Isotype         IgG1 Kappa           Purity         Protein A purified           Buffer         10 mM PBS           Target Molecular Weight         67 Kba           Product Description         UT 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         GlyDicar-3 GPC3 is a glycosylphospatid/i inosito-anchored membrane protein nodules and areas of hepatocellular carcinoma (HCC), hepatolastorm, melanoma, (HS) im s turnor, in hepatolastorm, melanoma, (HS) im muscin, a descreted form. Anti-GPC3 has been identified as a useful tumor marker for the diagnosis of hepatocellular carcinoma (HCC), hepatolastorm, melanoma (HS) with may carcino hepatic adenoma (HCC), hepatolastorm, melanoma (HS) with mas un	- )  ) (	
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       1.0 mg/ml of antibody purified by Protein A Column. Prepared in 10mM PBS WITHOUT BSA & axide. Also available at 200 ug/ml WITH BSA & azide (NBP2-S3141).         Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.       +80C         Gene ID       2719         Gene Symbol       GPC3         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 acrainoma (HCC). hepatoblastoma, melanoma, testicular germ cell tumors, andre IMCC). In patiebalbastoma, melanoma, testicular germ cell tumors, andre IMC). In the secure of hepatibil adenoma (HC), with malignant transformation. In the context of hepatibil adenoma, HC), with malignant transformation. In the context of hepatibil adenoma (HC), hepatoblastoma, melanoma, testicular germ cell tumors, andre Sepression is up regulated in certain histologic subtypes, specificially obly sac tumors and hepatibil adenoma. In contrast, GPC3 is not expressison is also found in sel onorid to be higher		
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Product Application Details         Applications         Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, CyTOF-	Specificity/Sensitivity	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,
Applications         Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, CyTOF-	Immunogen	Recombinant full-length human Glypican 3 protein (Uniprot: P51654)
Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, CyTOF-	Product Application Details	
	Applications	Immunohistochemistry, Immunohistochemistry-Paraffin, Protein Array, CyTOF-

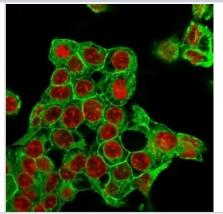


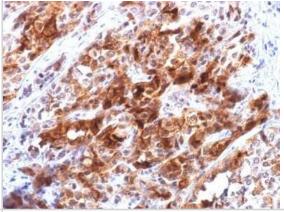
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Recommended Dilutions	Flow Cytometry 0.5 - 1 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5 - 1 ug/ml, Immunohistochemistry-Paraffin 0.5 - 1.0 ug/ml, Protein Array, CyTOF-ready
Application Notes	Immunohistochemistry (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

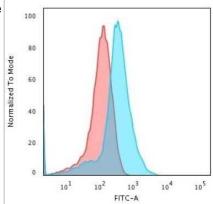
Immunocytochemistry/Immunofluorescence: Glypican 3 Antibody (rGPC3/863) - Azide and BSA Free [NBP2-54304] -Immunofluorescence Analysis of MeOH-fixed HepG2 cells labeling Glypican-3 with followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Red Dot (Red).





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).

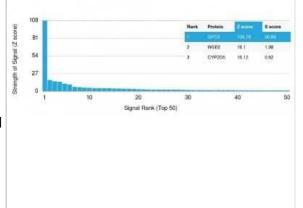


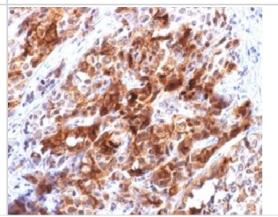
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Protein Array: Glypican 3 Antibody (rGPC3/863) - Azide and BSA Free [NBP2-54304] - Analysis of Protein Array containing more than 19,000 full-length human proteins using Glypican 3 Antibody (rGPC3/863) Zand S- Score: The Z-score represents the strength 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

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]

#### 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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