

Glypican-3 (ZR405)

Rabbit Monoclonal Antibody

Host: Rabbit
Specificity: Human
Immunogen: Recombinant fragment (around aa400-550) of human GPC3 protein
Ig Class: IgG
Storage: Store at 2-8°C for up to 2 years for concentrate form and 18 months for predilute form.

Specifications: Glypican-3 (ZR405) Rabbit Monoclonal primary antibody detects Glypican-3 protein in formalin-fixed, paraffin-embedded samples by immunohistochemical (IHC) staining.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. Retrieval conditions: Pretreatment of deparaffinized samples via heat-induced epitope retrieval is recommended. Detection method: Polymer anti-mouse/rabbit Ig detection system. Working dilution: 1:100-200. Positive Control: sample known to contain Glypican-3 protein.

Localization: Cytoplasmic and membrane.

Intended Use: Research Use Only (RUO). This antibody is not for diagnostic use.

Description: Glypican-3 (GPC3) is a glycosylphosphatidyl inositol-anchored membrane protein, which may also be found in a secreted form. GPC3 protein expression has been shown for 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 considered 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.

Supplied As: Purified antibody in Tris-HCl pH 7.4 buffer containing stabilizing proteins (including < 1% Bovine Serum Albumin) and < 0.1% ProClin by volume.

References:

1. Kandil DH, et al. Adv Anat Pathol. 2009; 16:125-9.
2. Coston WMP, et al. Am J Surg Pathol. 2008; 32:433-44.
3. Zynger DL, et al. Am J Surg Pathol. 2006; 30:1570-5.



Z2761RL-R/ Z2761RS-R/ Z2761RT-R/ Z2761RP-R (1.0ml Concentrate/ 0.5ml Con./ 0.1ml Con./ 7ml Pre-dil)



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