

36-2392: Anti-Glypican-3 (GPC3) (Hepatocellular Carcinoma Marker) Monoclonal Antibody (Clone: GPC3/1534R)

| | |
|--------------------------------|---|
| Clonality : | Monoclonal |
| Clone Name : | GPC3/1534R |
| Application : | FACS, IF, IHC |
| Reactivity : | Human, Rat |
| Gene : | GPC3 |
| Gene ID : | 2719 |
| Uniprot ID : | P51654 |
| Alternative Name : | DGSX; Glypican proteoglycan 3; GPC3; GTR2-2; Heparan sulphate proteoglycan; Intestinal protein OCI-5; MXR7; OCI-5; SDYS; Secreted glypican-3; SGBS1 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | Recombinant human full-length GPC3 protein |

Description

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 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.

Product Info

| | |
|----------------------------|---|
| Amount : | 20 µg / 100 µg |
| Content : | 200 µg/ml of Ab Purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| Storage condition : | 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. |

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); 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 buffer, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes)

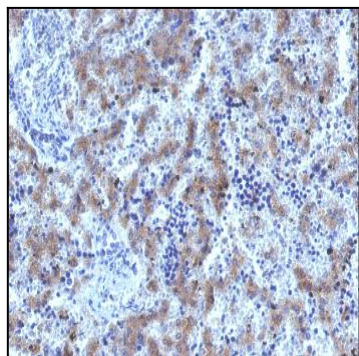


Fig. 1: Formalin-fixed, paraffin-embedded human Fetal Liver stained with Glypican-3 Rabbit Recombinant Monoclonal Antibody (GPC3/1534R).

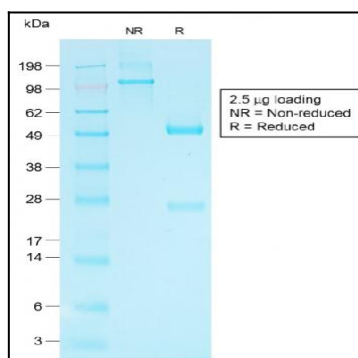


Fig. 2: SDS-PAGE Analysis of Purified Glypican-3 Rabbit Recombinant Monoclonal Antibody (GPC3/1534R).

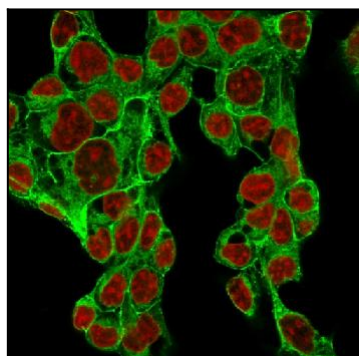


Fig. 3: Immunofluorescence Analysis of MeOH-fixed HepG2 cells labeling Glypican-3 with Glypican-3 Rabbit Recombinant Monoclonal Antibody (GPC3/1534R) followed by Goat anti-rabbit IgG-CF488 (Green). The nuclear counterstain is Reddot (Red)

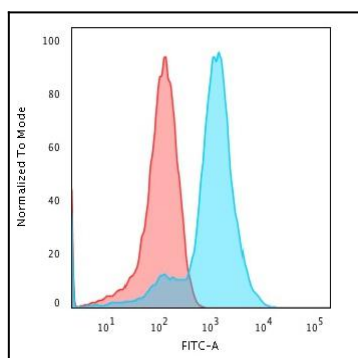


Fig. 4: Flow Cytometric Analysis of MeOH-fixed HepG2 cells using Glypican-3 Rabbit Recombinant Monoclonal Antibody (GPC3/1534R) followed by Goat anti-rabbit IgG-CF488 (Blue); Isotype Control (Red).