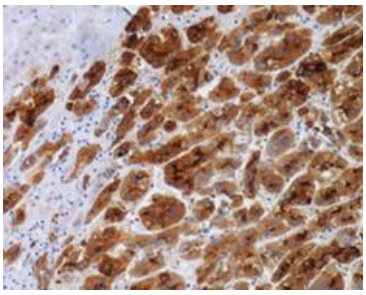
Glypican 3 clone 1G12

Instructions for Use

Specification:
Glypican-3 (GPC3) is a glycosylphospatidyl inositol-anchored membrane protein, which may also be found in a secreted form. Recently, GPC3 was identified to be useful tumour marker for the diagnosis of HCC, hepatoblastoma, melanoma, testicular germ cell tumours, and Wilms tumour. In patients with HCC, GPC3 was overexpressed in neoplastic liver tissue and elevated in serum but was undetectable in normal liver, benign liver, and the serum of healthy donors. GPC3 expression was 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 tumours, GPC3 expression is up regulated in certain histologic subtypes, specifically yolk sac tumours and choriocarcinoma. A high level of GPC3 expression has also been found in some types of embryonal tumours, such as Wilms tumour and hepatoblastoma, with a low or undetectable expression in normal adjacent tissue. Together these studies indicate that GPC3 is an important tumour marker.

Availability:

Catalog No.	Contents	Volume
ILM2613-C01	Glypican 3	0,1 ml concentrate
ILM2613-C05	Glypican 3	0,5 ml concentrate
ILM2613-C1	Glypican 3	1,0 ml concentrate



Intended use: For Research Use Only

Reactivity: Human

Clone: 1G12

Species of origin: Mouse

Isotype: IgG1 kappa

Control Tissue: Hepatocellular Carcinoma (HCC)

Staining: Cytoplasmic

Immunogen: A recombinant fragment containing amino acids 511-580 of human glypican-3

Presentation: Bioreactor Concentrate with 0.05% Azide

Application and suggested dilutions:
Pretreatment: Heat induced epitope retrieval in Tris EDTA buffer pH9.0, for 15 minutes, is required for IHC staining on formalin-fixed, paraffin embedded tissue sections.

- Immunohistochemical staining of formalin-fixed, paraffin embedded tissue section (dilution 1:200 - 1:400)

The optimal dilution for a specific application should be determined by the investigator.

Note: Dilution of the antibody in 10% normal goat serum followed by a goat anti-mouse secondary antibody-based detection is recommended.

Storage & Stability: Store at 2-8 °C. Do not use after expiration date printed on the vial.

References:

1) Yan B, et al. An Diagn Pathol. 2011 15: 162-169.
2) Capurro M, et al. Gastroenterology. 2003 Jul;125(1):89-97.
3) Coston WMP et al. Am J Surg Pathol. 2008 00(00):1-12.
4) Kandil D, et al. Cancer. 2007 Oct 25;111(5):316-22.
5) Kakar S, et al. Arch Pathol Lab Med. 2007 Nov;131(11):1648-54. Reviews