

For Research Use Only

GPC3 Polyclonal antibody

Catalog Number: 30021-1-AP



Basic Information

| | | |
|---|--|---|
| Catalog Number: 30021-1-AP | GenBank Accession Number: BC035972 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 450 µg/ml by Nanodrop; | GeneID (NCBI): 2719 | Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500 |
| Source: Rabbit | Full Name: glypican 3 | |
| Isotype: IgG | Calculated MW: 580 aa, 66 kDa | |
| Immunogen Catalog Number: AG32559 | Observed MW: 66 kDa | |

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HuH-7 cells,

IHC : mouse liver tissue,

Background Information

Glypicans (GPCs) are a family of glycosylphosphatidylinositol (GPI)-anchored heparan sulfate proteoglycans (HSPGs) that may play a role in the control of cell division and growth regulation. In mammals, there are six GPCs (GPC1 to GPC6), all of which have a similar core-protein size of approx. 60 kDa and the clustering of glycosaminoglycan attachment site near the C-terminus. They are tethered to the cell surface by GPI linkages, which can be cleaved by endogenous phospholipases, thus releasing the protein. Glypican 3 (GPC3) is highly expressed in many tissues during development and plays an important role in the regulation of embryonic growth (PMID: 22467855). Loss-of-function mutations of GPC3 result in the Simpson-Golabi-Behmel overgrowth syndrome (SGBS), and Gpc-3 null mice display developmental overgrowth (PMID: 8589713; 18477453). In hepatocellular carcinoma (HCC), the overexpression of glypican 3 has been demonstrated to be a reliable diagnostic indicator (PMID: 19212669; 22706665). The calculated molecular weight of native glypican 3 is 66 kDa, and glycinate forms of glypican 3 have higher molecular weights than 66 kDa (PMID: 12851874; 16024626; 19574424).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

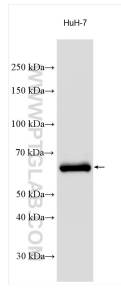
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

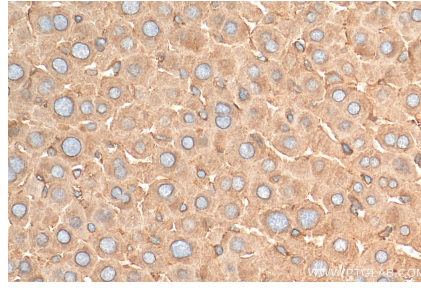
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30021-1-AP (GPC3 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 30021-1-AP (GPC3 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).