

For Research Use Only

Glypican 3 Polyclonal antibody

Catalog Number: 30021-1-AP

1 Publications



Basic Information

Catalog Number: 30021-1-AP	GenBank Accession Number: BC035972	Purification Method: Antigen affinity purification
Concentration: 450 ug/ml	GeneID (NCBI): 2719	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P51654	
Isotype: IgG	Full Name: glypican 3	
Immunogen Catalog Number: AG32559	Calculated MW: 580 aa, 66 kDa Observed MW: 66 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : HuH-7 cells, IHC : human hepatocellular carcinoma,
Cited Applications: IHC	
Species Specificity: human, mouse	
Cited Species: mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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).

Notable Publications

Author	Pubmed ID	Journal	Application
Tong Wu	39625677	Mol Cancer Res	IHC

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

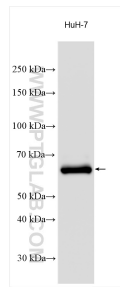
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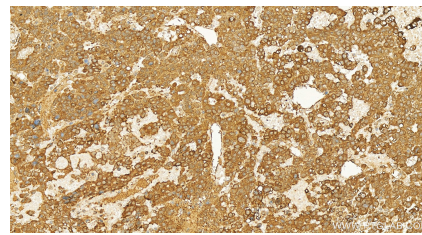
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Selected Validation Data



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 human hepatocellular carcinoma slide using 30021-1-AP (Glypican 3 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).