

For Research Use Only

Glypican 3 Polyclonal antibody

Catalog Number: 25175-1-AP **10 Publications**



Basic Information

Catalog Number: 25175-1-AP	GenBank Accession Number: BC035972	Purification Method: Antigen affinity purification
Concentration: 550 ug/ml	GeneID (NCBI): 2719	Recommended Dilutions: WB 1:500-1:1000
Source: Rabbit	UNIPROT ID: P51654	
Isotype: IgG	Full Name: glypican 3	
Immunogen Catalog Number: AG10129	Calculated MW: 580 aa, 66 kDa	
	Observed MW: 66 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HepG2 cells, HEK-293 cells, HEK-293 cell line
Cited Applications: WB, IF, IP	
Species Specificity: human	
Cited Species: human, mouse	

Background Information

Glypicans (GPCs) are a family of glycosylphosphatidylinositol (GPI)-anchored heparan sulphate proteoglycans (HSPGs) that may play a role in the control of cell division and growth regulation. In mammals, there are six GPCs (GPC 1 to GPC 6), 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, glycanated forms of glypican 3 have higher molecular weights than 66 kDa (PMID: 12851874; 16024626; 19574424).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaoqing Zheng	28965082	Redox Biol	WB
Samuel C Mok	36139670	Cancers (Basel)	WB
Yuhei Iwasa	36359563	Diagnostics (Basel)	

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:

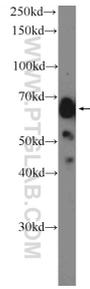
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 25175-1-AP (Glypican 3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

HepG2 cells were subjected to SDS PAGE followed by western blot with 25175-1-AP (Glypican 3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.