

For Research Use Only

Glypican 3 Recombinant monoclonal antibody

Catalog Number: 86694-1-RR



Basic Information

Catalog Number:	86694-1-RR	GenBank Accession Number:	BC035972	Purification Method:	Protein A purification
Size:	100ul, Concentration: 1000 µg/ml by Nanodrop;	GenID (NCBI):	2719	CloneNo.:	251469D8
Source:	Rabbit	UNIPROT ID:	P51654	Recommended Dilutions:	WB: 1:5000-1:50000
Isotype:	IgG	Full Name:	glypican 3		
		Calculated MW:	580 aa, 66 kDa		
		Observed MW:	66-70 kDa		

Applications

Tested Applications:	Positive Controls:
WB, ELISA	WB: HepG2 cells, HL-60 cells, Jurkat cells
Species Specificity:	
human	

Background Information

Glycans (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

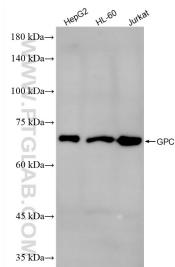
Storage: Store at -20°C. Stable for one year after shipment.
Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 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

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86694-1-RR (GPC3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.