For Research Use Only

# Glypican 3 Polyclonal antibody

Catalog Number:25175-1-AP 10 Publications

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## Basic Information

Catalog Number:
25175-1-AP

Size:
150ul , Concentration: 550 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10129

GenBank Accession Number:
BC035972

GeneID (NCBI):
2719

UNIPROT ID:
P51654

Full Name:
glypican 3

Calculated MW:
580 aa, 66 kDa

Observed MW:
66 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000

## Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IP, IF

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

WB : HepG2 cells, HEK-293 cells, HEK-293 cell line

## 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 (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, 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) | |

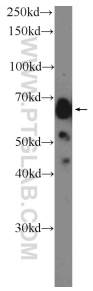
## Storage

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

*** 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

## Selected Validation Data




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.

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.