

For Research Use Only

# Glypican 1 Polyclonal antibody

Catalog Number: 16700-1-AP

Featured Product

19 Publications



## Basic Information

### Catalog Number:

16700-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10095

### GenBank Accession Number:

BC051279

### GeneID (NCBI):

2817

### UNIPROT ID:

P35052

### Full Name:

glypican 1

### Calculated MW:

558 aa, 62 kDa

### Observed MW:

65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

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 : HepG2 cells,

IP : BxPC-3 cells,

IHC : human pancreas cancer tissue,

## Background Information

Glypicans are a family of HSPGs that are attached to the cell membrane by a glycosyl-phosphatidylinositol anchor. Glypicans are considered to have the ability to modulate the activities of HBGFs. The expression of glypicans is regulated temporally and spatially during development, suggesting they are involved in development and morphogenesis. To date, six glypicans (GPC1 to GPC6) have been identified in mammals. GPC1 is most ubiquitously expressed in adult tissues. GPC1 promotes efficient signaling by HBGFs and plays a critical role in cell growth and differentiation. GPC1 is involved in tumorigenesis and angiogenesis, and is frequently overexpressed in several types of tumors including pancreatic carcinoma, breast cancer and glioma.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ying Liu	36158119	Comput Math Methods Med	IHC
Steven Woods	30193893	Matrix Biol	WB
Anne Marie W Bartosch	34059731	Sci Rep	WB

## 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

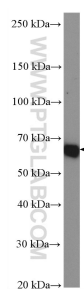
For technical support and original validation data for this product please contact:

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

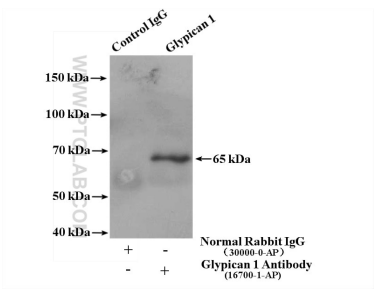
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

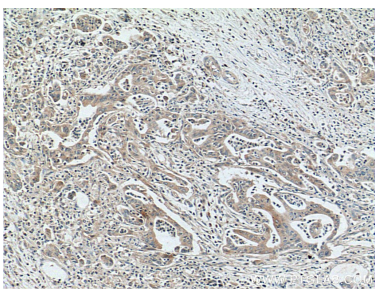
Selected Validation Data



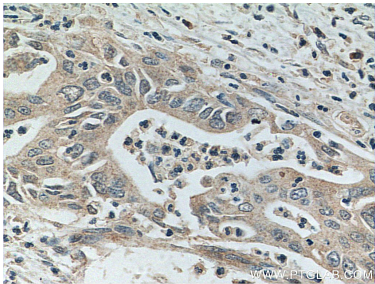
HepG2 cells were subjected to SDS PAGE followed by western blot with 16700-1-AP (Glypican 1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-Glypican 1 (IP:16700-1-AP, 4ug; Detection:16700-1-AP 1:600) with BxPC-3 cells lysate 3100 ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 16700-1-AP (Glypican 1 antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 16700-1-AP (Glypican 1 antibody) at dilution of 1:100 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).