

For Research Use Only

# PPP1CC Polyclonal antibody

Catalog Number: 11082-1-AP

Featured Product

8 Publications



## Basic Information

### Catalog Number:

11082-1-AP

### Size:

400 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1550

### GenBank Accession Number:

BC014073

### GeneID (NCBI):

5501

### UNIPROT ID:

P36873

### Full Name:

protein phosphatase 1, catalytic subunit, gamma isoform

### Calculated MW:

35 kDa

### Observed MW:

35 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:16000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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 : HEK-293 cells, MCF-7 cells, LO2 cells, HEK-293T cells, mouse brain tissue, rat brain tissue

IP : HEK-293 cells,

IHC : human pancreas cancer tissue,

IF/ICC : HEK-293 cells,

## Background Information

PPP1CC, also named as PP-1G, belongs to the PPP phosphatase family and PP-1 subfamily. Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. It is involved in regulation of ionic conductances and long-term synaptic plasticity. PPP1CC may play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca<sup>2+</sup>/calmodulin dependent protein kinase II.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ru-Jia Liao	25224648	Clin Exp Pharmacol Physiol	WB, IP
Xiaoman Zhu	36096985	Cell Death Dis	WB
Chao Huang	24196533	Am J Physiol Cell Physiol	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

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

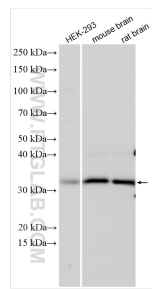
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

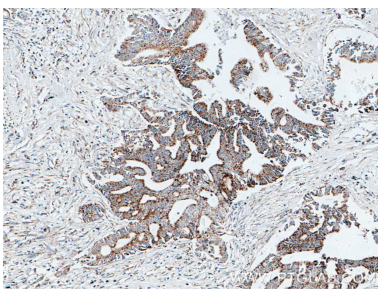
W: [ptgcn.com](http://ptgcn.com)

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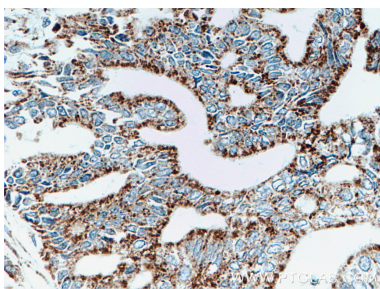
Selected Validation Data



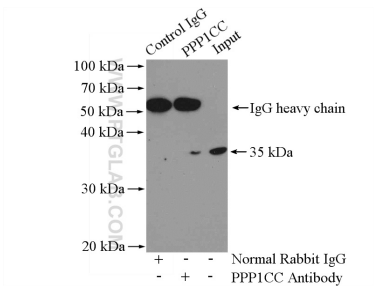
Various lysates were subjected to SDS PAGE followed by western blot with 11082-1-AP (PPP1CC antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



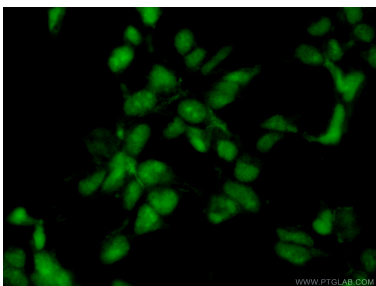
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11082-1-AP (PPP1CC antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 11082-1-AP (PPP1CC antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PPP1CC (IP:11082-1-AP, 4ug; Detection:11082-1-AP 1:500) with HEK-293 cells lysate 2000ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HEK-293 cells using 11082-1-AP (PPP1CC antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).