

For Research Use Only

# PPP1CC Polyclonal antibody

Catalog Number: 55150-1-AP **3 Publications**



## Basic Information

**Catalog Number:**

55150-1-AP

**Size:**

150ul, Concentration: 920 ug/ml by Nanodrop and 920 ug/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_002710

**GeneID (NCBI):**

5501

**UNIPROT ID:**

P36873

**Full Name:**

protein phosphatase 1, catalytic subunit, gamma isoform

**Calculated MW:**

38 kDa

**Observed MW:**

35 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 1:20-1:200

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB

**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: mouse brain tissue, L02 cells, rat brain tissue

IP: mouse brain tissue,

IHC: human heart tissue, human liver tissue

IF/ICC: HeLa 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. The antibody is specific to PPP1CC.

## Notable Publications

Author	Pubmed ID	Journal	Application
Vinita Yadav	28637872	J Biol Chem	WB
Yin Zhang	34907157	Cell Death Dis	WB
Ye-Ya Tan	34124052	Front Cell Dev Biol	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

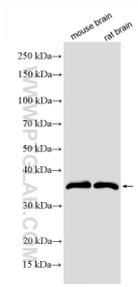
For technical support and original validation data for this product please contact:

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

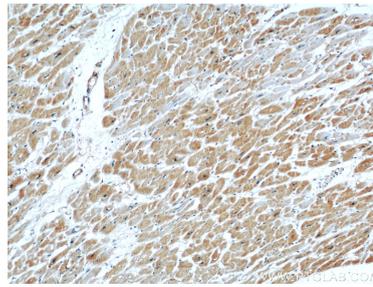
E: proteintech@ptglab.com  
W: ptglab.com

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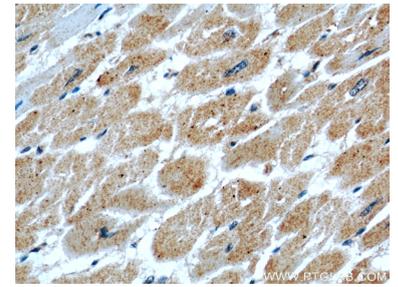
## Selected Validation Data



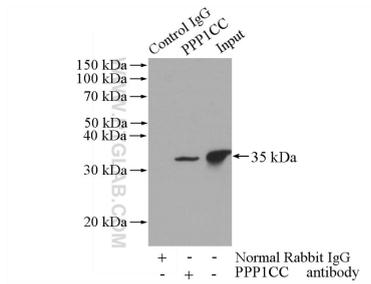
Various lysates were subjected to SDS PAGE followed by western blot with 55150-1-AP (PPP1CC antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



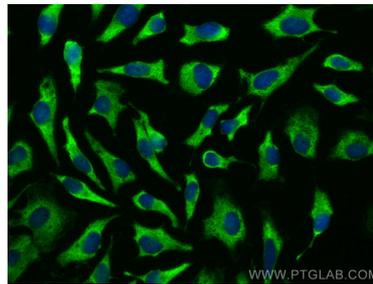
Immunohistochemical analysis of paraffin-embedded human heart using 55150-1-AP (PPP1CC antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart using 55150-1-AP (PPP1CC antibody) at dilution of 1:50 (under 40x lens).



IP result of anti-PPP1CC (IP:55150-1-AP, 4ug; Detection:55150-1-AP 1:500) with mouse brain tissue lysate 3440ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PPP1CC antibody (55150-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).