

For Research Use Only

# PPT1 Polyclonal antibody

Catalog Number: 29653-1-AP

Featured Product

2 Publications



## Basic Information

### Catalog Number:

29653-1-AP

### Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG31240

### GenBank Accession Number:

BC008426

### GeneID (NCBI):

5538

### UNIPROT ID:

P50897

### Full Name:

palmitoyl-protein thioesterase 1

### Calculated MW:

34 kDa

### Observed MW:

32-34 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:200-1:800

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, ELISA

### Cited Applications:

WB, IF

### 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**: HEK-293 cells, A549 cells, HeLa cells, SH-SY5Y cells, mouse testis tissue, rat testis tissue

**IHC**: human kidney tissue,

**IF-P**: mouse testis tissue,

## Background Information

The defective gene behind the INCL (infantile neuronal ceroid lipofuscinoses) disease, CLN1, encodes for palmitoyl protein thioesterase 1 (PPT1). It consists of 306 amino acids, including a signal sequence of 26 amino acids and three N-linked glycosylation sites. This protein exists with a molecular mass of 32 kDa, 34 kDa, 36 kDa, and 38 kDa. The enzyme is transported into lysosomes of non-neuronal cells by the mannose 6-phosphate receptor (M6PR) mediated pathway and a significant amount of native PPT1 resides in a complex rather than in a monomeric form (PMID:17565660).

## Notable Publications

Author	Pubmed ID	Journal	Application
Youjing Zhang	39528731	EMBO Rep	WB
Dongming Lv	37480849	Cell Rep Med	WB, IF

## 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

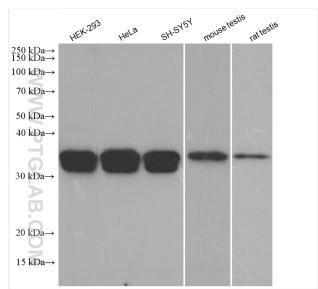
For technical support and original validation data for this product please contact:

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

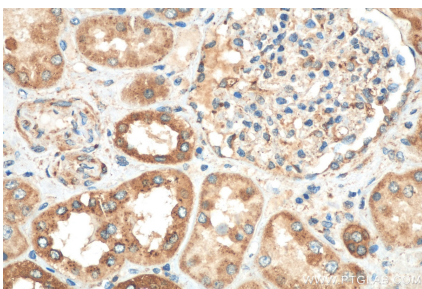
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

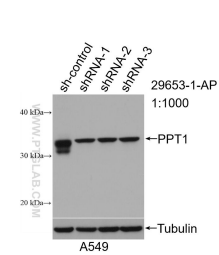
Selected Validation Data



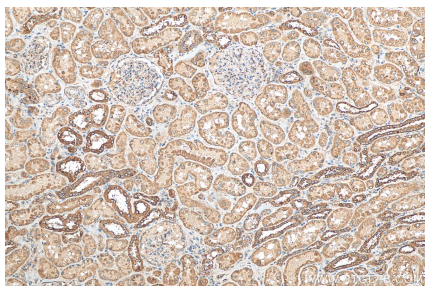
Various lysates were subjected to SDS PAGE followed by western blot with 29653-1-AP (PPT1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



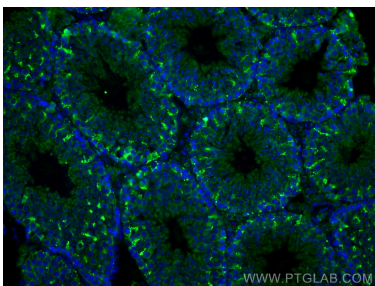
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 29653-1-AP (PPT1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



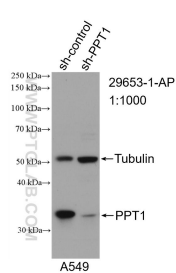
WB result of PPT1 antibody (29653-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PPT1 transfected A549 cells.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 29653-1-AP (PPT1 antibody) at dilution of 1:400 (under 10x lens). Heat-mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using PPT1 antibody (29653-1-AP) at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



WB result of PPT1 antibody (29653-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PPT1 transfected A549 cells.