

For Research Use Only

# PIN1 Polyclonal antibody

Catalog Number: 10495-1-AP

Featured Product

19 Publications



## Basic Information

<b>Catalog Number:</b> 10495-1-AP	<b>GenBank Accession Number:</b> BC002899	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 260 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5300	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> peptidylprolyl cis/trans isomerase, NIMA-interacting 1	<b>IHC 1:20-1:200</b> <b>IF 1:20-1:200</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 18 kDa	
<b>Immunogen Catalog Number:</b> AG0767	<b>Observed MW:</b> 18 kDa	

## Applications

### Tested Applications:

IF, IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### 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:** A549 cells, HEK-293 cells, HeLa cells, Jurkat cells, NIH/3T3 cells, PC-12 cells, mouse brain tissue, rat brain tissue

**IP:** HepG2 cells,

**IHC:** human renal cell carcinoma tissue, human pancreas cancer tissue

**IF:** HEK-293 cells,

## Background Information

• PIN1 (Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1) is essential for mitosis progression in yeast cells and is hypothesized to perform the same role in mammalian cells. It might regulate cellular processes distinct from the cell cycle itself, such as terminal differentiation through a modulation of differentiation-specific gene expression (PMID:20801874). It colocalizes with NEK6 in the nucleus. Pin1 inhibition simultaneously blocks multiple cancer pathways, disrupts the desmoplastic and immunosuppressive TME, and upregulates PD-L1 and ENT1, rendering pancreatic ductal adenocarcinoma (PDAC) eradicable by immunochemotherapy (PMID: 34388391).

## Notable Publications

Author	Pubmed ID	Journal	Application
Di Wu	30246389	J Cell Physiol	IF
Linna Xie	30263006	Int J Biol Sci	WB
Keishi Kawasaki	33249719	Liver Int	WB, IHC

## 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

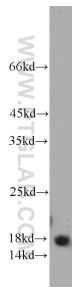
For technical support and original validation data for this product please contact:

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

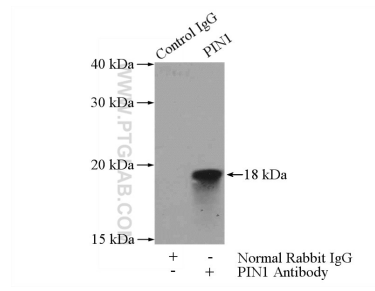
E: proteintech@ptglab.com  
W: ptglab.com

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

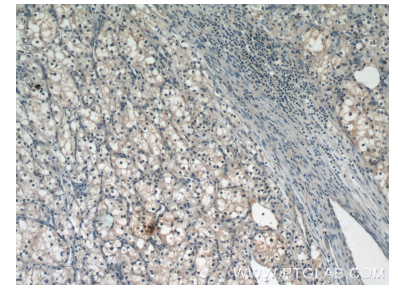
## Selected Validation Data



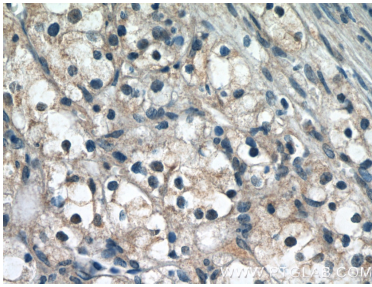
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10495-1-AP (PIN1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



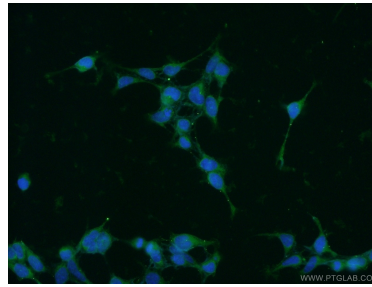
IP Result of anti-PIN1 (IP:10495-1-AP, 4ug; Detection:10495-1-AP 1:500) with HepG2 cells lysate 2400ug.



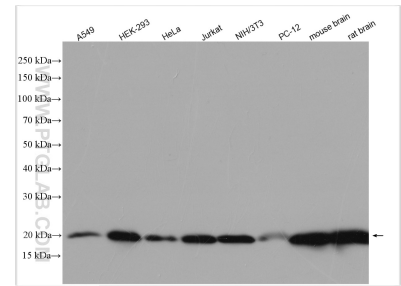
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10495-1-AP (PIN1 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10495-1-AP (PIN1 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HEK-293 cells using 10495-1-AP (PIN1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 10495-1-AP (PIN1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.