

For Research Use Only

# PIN1 Polyclonal antibody

Catalog Number:10495-1-AP

Featured Product

39 Publications



## Basic Information

**Catalog Number:**

10495-1-AP

**Size:**

150ul , Concentration: 600 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG0767

**GenBank Accession Number:**

BC002899

**GeneID (NCBI):**

5300

**UNIPROT ID:**

Q13526

**Full Name:**

peptidylprolyl cis/trans isomerase, NIMA-interacting 1

**Calculated MW:**

18 kDa

**Observed MW:**

18 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

IP 0.5-4.0 ug 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, IHC, IF, IP, CoIP

**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/ICC:** HEK-293 cells, NIH/3T3 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
An-Ning Zhao	36250925	FASEB J	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, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

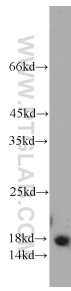
For technical support and original validation data for this product please contact:

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

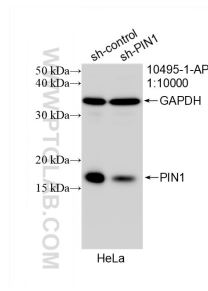
E: proteintech@ptglab.com  
W: ptglab.com

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

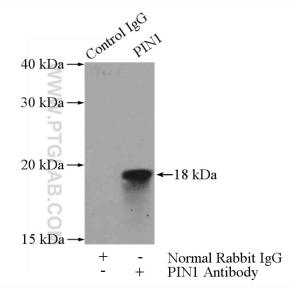
## Selected Validation Data



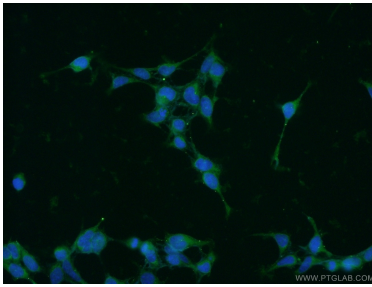
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10495-1-AP (PIN1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



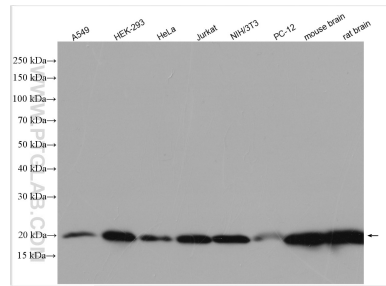
WB result of PIN1 antibody (10495-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PIN1 transfected HeLa cells.



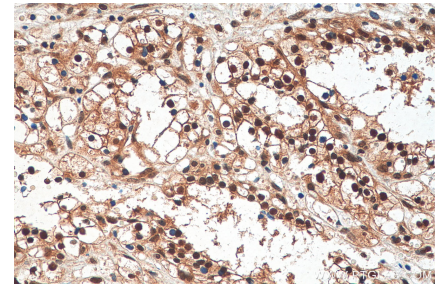
IP result of anti-PIN1 (IP:10495-1-AP, 4ug; Detection:10495-1-AP 1:500) with HepG2 cells lysate 2400ug.



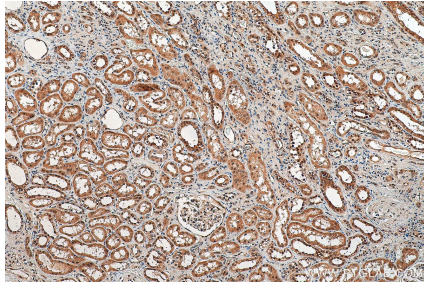
Immunofluorescent analysis of HEK-293 cells using 10495-1-AP (PIN1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



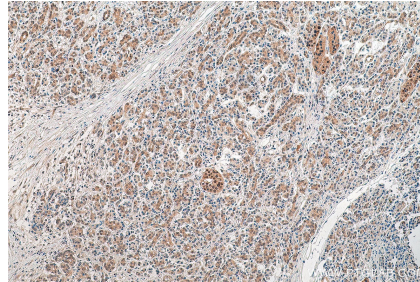
Various lysates were subjected to SDS PAGE followed by western blot with 10495-1-AP (PIN1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



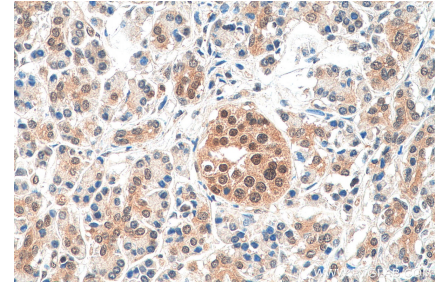
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10495-1-AP (PIN1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



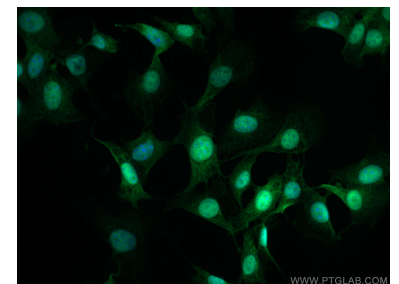
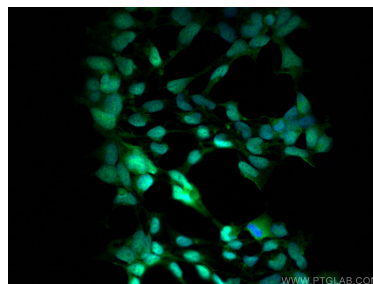
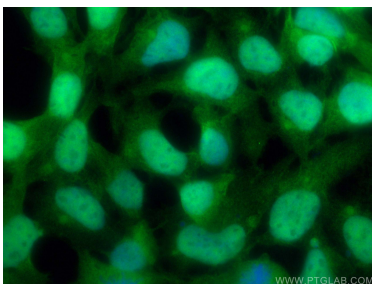
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10495-1-AP (PIN1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10495-1-AP (PIN1 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 10495-1-AP (PIN1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using PIN1 antibody (10495-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using PIN1 antibody (10495-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using PIN1 antibody (10495-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).