For Research Use Only

PIN1 Polyclonal antibody

Catalog Number:10495-1-AP Featured Product 31 Publications

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Basic Information

Catalog Number:
10495-1-AP

Size:
600 μg/ml

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 1:500-1:2000
IF 1:50-1:500

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB, IP, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, 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 : 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 pancreas cancer tissue, human renal cell carcinoma tissue

IF : 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

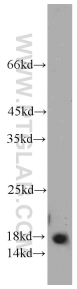
Author	Pubmed ID	Journal	Application
Di Wu	30246389	J Cell Physiol	IF
Linna Xie	30263006	Int J Biol Sci	WB
An-Ning Zhao	36250925	FASEB J	WB,IHC

Storage

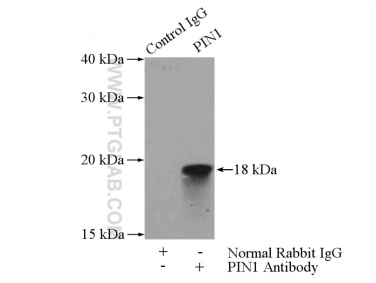
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

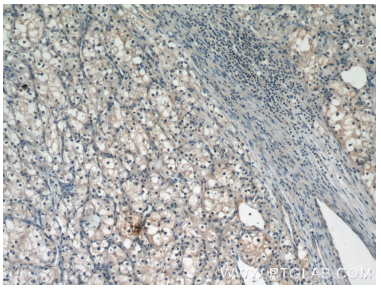
Selected Validation Data



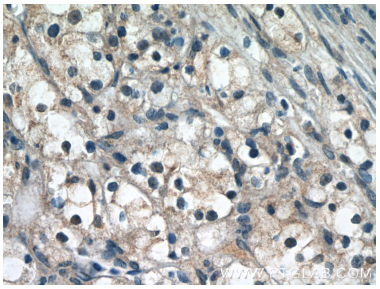
HEK-293 cells were subjected to SDS PAGE followed by western blot with 10495-1-AP (PIN1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



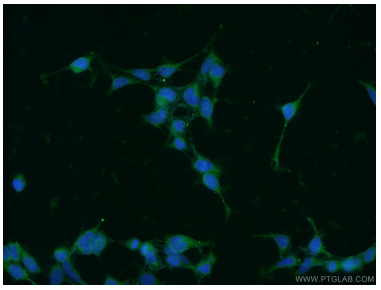
IP result of anti-PIN1 (IP:10495-1-AP, 4ug; Detection:10495-1-AP 1:500) with HepG2 cells lysate 2400ug.



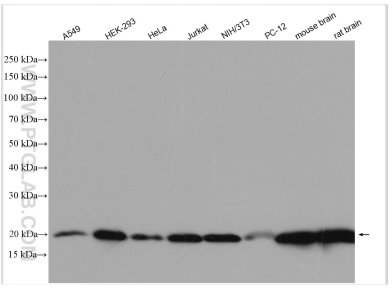
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10495-1-AP (PIN1 Antibody) at dilution of 1:50 (under 10x lens).



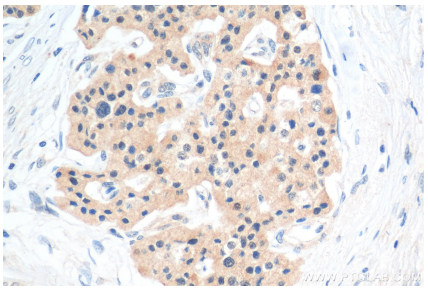
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10495-1-AP (PIN1 Antibody) at dilution of 1:50 (under 40x lens).



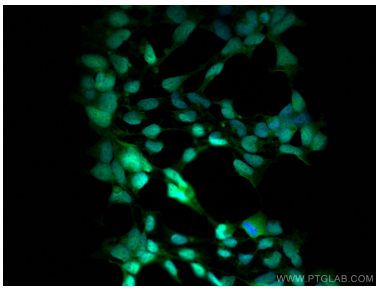
Immunofluorescent analysis of HEK-293 cells using 10495-1-AP (PIN1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



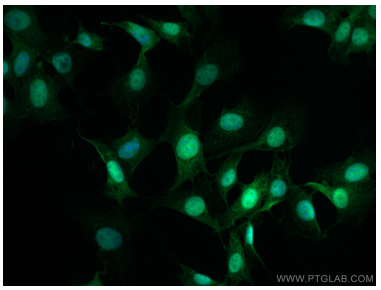
Various lysates were subjected to SDS PAGE followed by western blot with 10495-1-AP (PIN1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



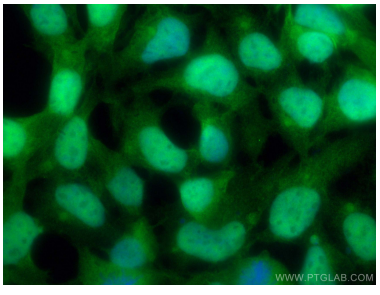
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 10495-1-AP (PIN1 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 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).



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).