

For Research Use Only

# PAK1 Polyclonal antibody

Catalog Number: 21401-1-AP

Featured Product

23 Publications



## Basic Information

### Catalog Number:

21401-1-AP

### Size:

150ul, Concentration: 1200 ug/ml by Nanodrop and 673 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG16102

### GenBank Accession Number:

BC109299

### GeneID (NCBI):

5058

### UNIPROT ID:

Q13153

### Full Name:

p21 protein (Cdc42/Rac)-activated kinase 1

### Calculated MW:

553 aa, 62 kDa

### Observed MW:

61-65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:200-1:800

## 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, chicken

### Positive Controls:

WB : C6 cells, Jurkat cells, NIH/3T3 cells, MCF-7 cells, HeLa cells, K-562 cells

IP : K-562 cells,

IHC : mouse brain tissue, human breast cancer tissue

IF/ICC : C6 cells,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

The p21-Activated kinase 1 (PAK1), a member of serine-threonine kinases family, was initially identified as an interactor of the Rho GTPases RAC1 and CDC42, which affect a wide range of processes associated with cell motility, survival, metabolism, cell cycle, proliferation, transformation, stress, inflammation, and gene expression (PMID: 32863957). PAK1 is over-expressed in various malignancies such as ovarian, breast, lung, and bladder cancers, and is closely associated with tumor invasion.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Yuan Zhang	36259516	J Biol Chem	WB
Dongmei Wang	36224320	Mol Neurobiol	IF
Pei Xia	30442385	Gynecol Oncol	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

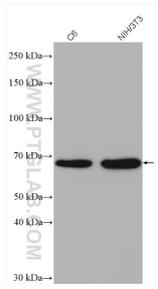
For technical support and original validation data for this product please contact:

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

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

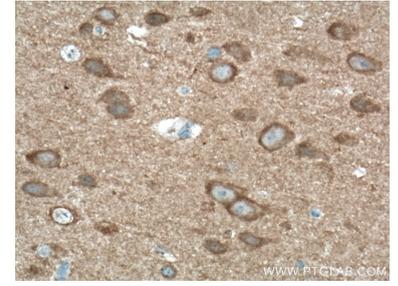
## Selected Validation Data



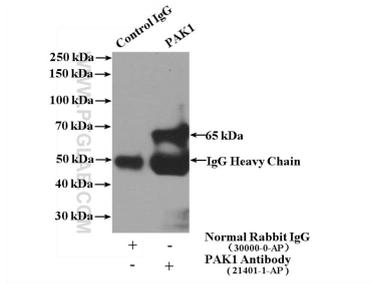
Various lysates were subjected to SDS PAGE followed by western blot with 21401-1-AP (PAK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



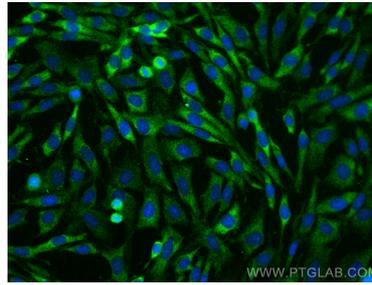
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21401-1-AP (PAK1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 21401-1-AP (PAK1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PAK1 (IP:21401-1-AP, 4ug; Detection:21401-1-AP 1:1000) with K-562 cells lysate 3200ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed C6 cells using PAK1 antibody (21401-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L).