

For Research Use Only

PAK4 Polyclonal antibody

Catalog Number: 14685-1-AP

Featured Product

18 Publications



Basic Information

Catalog Number:

14685-1-AP

Size:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5981

GenBank Accession Number:

BC025282

GeneID (NCBI):

10298

UNIPROT ID:

O96013

Full Name:

p21 protein (Cdc42/Rac)-activated kinase 4

Calculated MW:

64 kDa

Observed MW:

64 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IF 1:10-1:100

Applications

Tested Applications:

FC, IF/ICC, IP, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : COLO 320 cells, HeLa cells, PC-3 cells, rat skin tissue

IP : mouse liver tissue,

IF : HeLa cells,

Background Information

PAK4(p21-activated kinase 4) is also named as KIAA1142. It belongs to the protein kinase superfamily. PAK4 regulates cell morphology, cytoskeletal organization, and cell proliferation and migration. It can also function as an antiapoptotic protein (PMID:14517283). It has 4 isoforms produced by alternative splicing. And it can be autophosphorylated on serine residues when activated by CDC42/p21 (PMID:11278822).

Notable Publications

Author	Pubmed ID	Journal	Application
Yohendran Baskaran	34493720	Nat Commun	WB,IF
Parisa Rabieifar	31594963	Sci Rep	IHC,IF
Atreyi Dasgupta	33168646	Cancer Res	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:

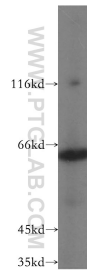
T: 4006900926

E: Proteintech-CN@ptglab.com

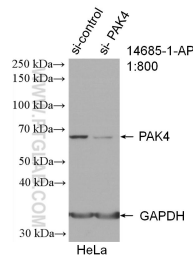
W: ptgcn.com

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

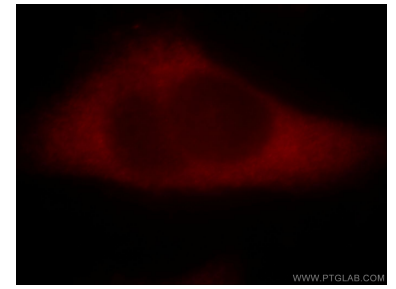
Selected Validation Data



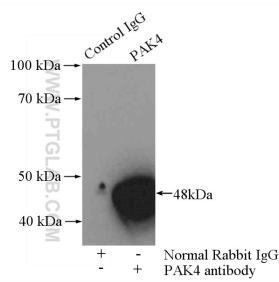
COLO 320 cells were subjected to SDS PAGE followed by western blot with 14685-1-AP (PAK4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



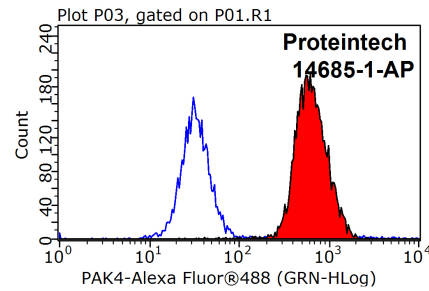
WB result of PAK4 antibody (14685-1-AP; 1:800; incubated at room temperature for 1.5 hours) with sh-Control and sh-PAK4 transfected HeLa cells.



Immunofluorescent analysis of HeLa cells, using PAK4 antibody 14685-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-PAK4 (IP:14685-1-AP, 4ug; Detection:14685-1-AP 1:800) with mouse liver tissue lysate 4000ug.



1X10⁶ HeLa cells were stained with 0.2ug PAK4 antibody (14685-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.