

For Research Use Only

PAK4 Polyclonal antibody

Catalog Number: 14685-1-AP

Featured Product

16 Publications



Basic Information

Catalog Number: 14685-1-AP	GenBank Accession Number: BC025282	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop and 513 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10298	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: p21 protein (Cdc42/Rac)-activated kinase 4	IF 1:10-1:100
Isotype: IgG	Calculated MW: 64 kDa	
Immunogen Catalog Number: AG5981	Observed MW: 64 kDa	

Applications

Tested Applications: FC, IF, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB : COLO 320 cells, PC-3 cells, HeLa cells, rat skin tissue
Species Specificity: human, mouse, rat	IP : mouse liver tissue,
Cited Species: human, mouse	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

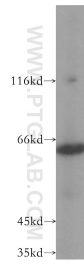
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

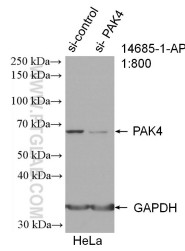
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

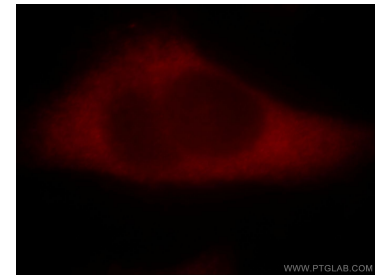
Selected Validation Data



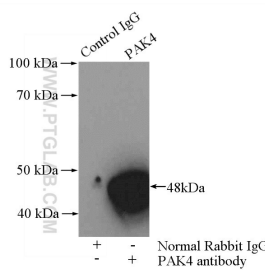
COLO 320 cells were subjected to SDS PAGE followed by western blot with 14685-1-AP (PAK4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



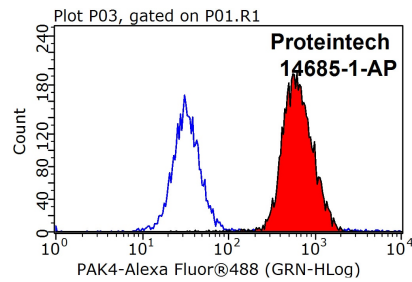
WB result of PAK4 antibody (14685-1-AP; 1:800; incubated at room temperature for 1.5 hours) with sh-Control and sh-PAK4 transfected HeLa cells.



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.