

For Research Use Only

PAK4 Polyclonal antibody

Catalog Number: 14685-1-AP

Featured Product

22 Publications



Basic Information

Catalog Number:

14685-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

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

IP : mouse liver tissue,

IHC : human liver tissue,

IF/ICC : 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

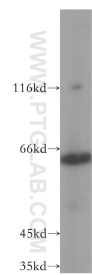
For technical support and original validation data for this product please contact:

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

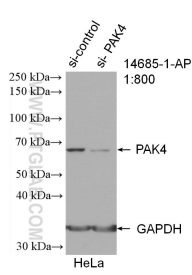
E: proteintech@ptglab.com
W: ptglab.com

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

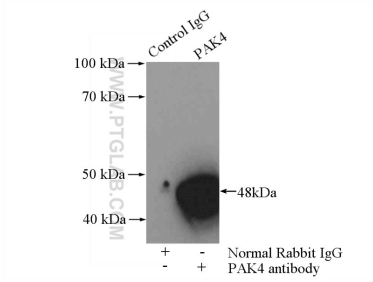
Selected Validation Data



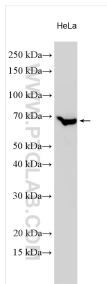
COLO 320 cells were subjected to SDS PAGE followed by western blot with 14685-1-AP (PAK4 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



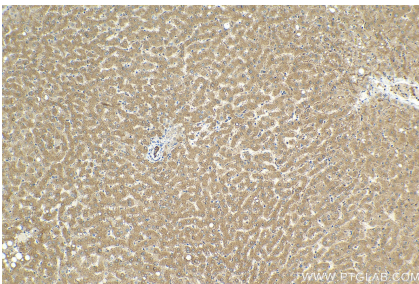
WB result of PAK4 antibody (14685-1-AP; 1:800; incubated at room temperature for 1.5 hours) with sh-Control and sh-PAK4 transfected HeLa cells.



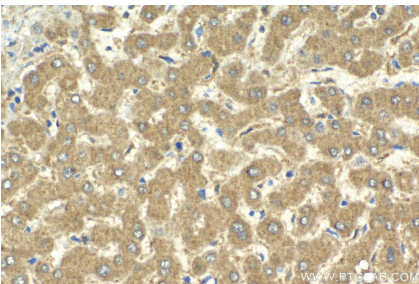
IP result of anti-PAK4 (IP:14685-1-AP, 4ug; Detection:14685-1-AP 1:800) with mouse liver tissue lysate 4000ug.



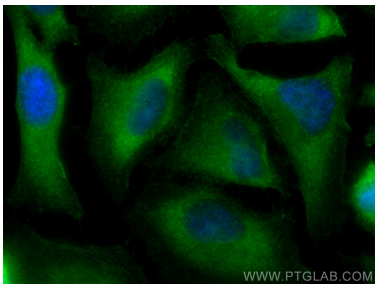
Various lysates were subjected to SDS PAGE followed by western blot with 14685-1-AP (PAK4 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 14685-1-AP (PAK4 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 14685-1-AP (PAK4 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PAK4 antibody (14685-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).