

For Research Use Only

PAK2 Polyclonal antibody

Catalog Number:19979-1-AP



Basic Information

Catalog Number:

19979-1-AP

Size:

150ul , Concentration: 350 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_002577

GeneID (NCBI):

5062

UNIPROT ID:

Q13177

Full Name:

p21 protein (Cdc42/Rac)-activated kinase 2

Calculated MW:

58 kDa

Observed MW:

54 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:5000

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

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Species Specificity:

human

Positive Controls:

WB : HEK-293 cells, human skeletal muscle tissue, Jurkat cells, HeLa cells, PC-3 cells, Raji cells

IP : K-562 cells,

IF/ICC : HeLa cells,

Background Information

PAK2, also named as PAK65, PAKgamma, p58, PAK-2p27, PAK-2p24 and C-t-PAK2, belongs to the protein kinase superfamily, STE Ser/Thr protein kinase family and STE20 subfamily. Full length PAK 2 stimulates cell survival and cell growth. The process is, at least in part, mediated by phosphorylation and inhibition of pro-apoptotic BAD. PAK2 has several isoforms with the MW of 54-62 kDa and 41 kDa. The 62 kDa PAK2 is cleaved into a 34 kDa C terminal fragment and a 28 kDa N terminal fragment with a time course that parallels apoptotic death in Jurkat cells. (PMID:10200518). Caspase-activated PAK-2p34 is involved in cell death response, probably involving the JNK signaling pathway. Cleaved PAK-2p34 seems to have a higher activity than the CDC42-activated form. The antibody has no cross reaction to PAK1 and PAK3.

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

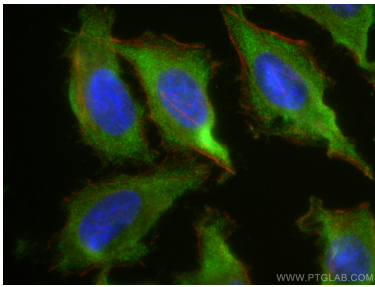
For technical support and original validation data for this product please contact:

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

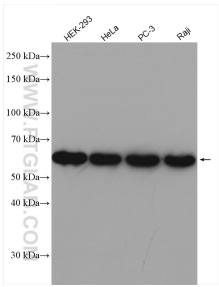
E: proteintech@ptglab.com
W: ptglab.com

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

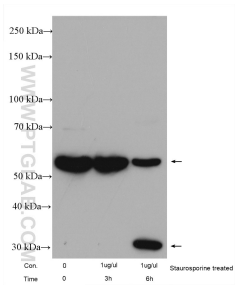
Selected Validation Data



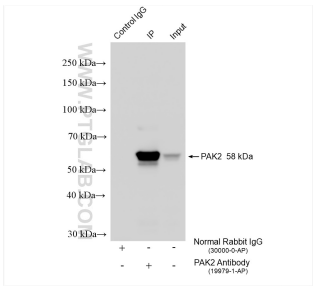
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PAK2 antibody (19979-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 19979-1-AP (PAK2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Untreated and Staurosporine treated Jurkat cells were subjected to SDS PAGE followed by western blot with 19979-1-AP (PAK2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



IP result of anti-PAK2 (IP:19979-1-AP, 4ug; Detection:19979-1-AP 1:2000) with K-562 cells lysate 2400 ug.