

For Research Use Only

PAK1 Polyclonal antibody

Catalog Number: 51137-1-AP

Featured Product

3 Publications



Basic Information

Catalog Number:

51137-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

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 1:500-1:2000

IHC 1:20-1:200

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

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 : A431 cells, K-562 cells, HEK-293 cells, C6 cells, NIH/3T3 cells, PC-12 cells

IHC : human stomach cancer tissue,

IF/ICC : HeLa cells,

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
Caihong Wang	39467462	J Environ Manage	WB
Janet P Raja Xavier	38704457	Commun Biol	WB
Jung-Soo Pyo	37801909	Pathol Res Pract	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:

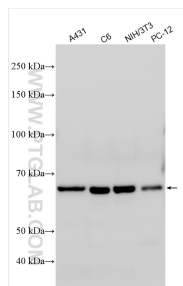
T: 4006900926

E: Proteintech-CN@ptglab.com

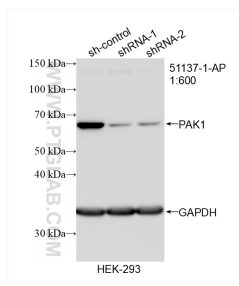
W: ptgcn.com

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

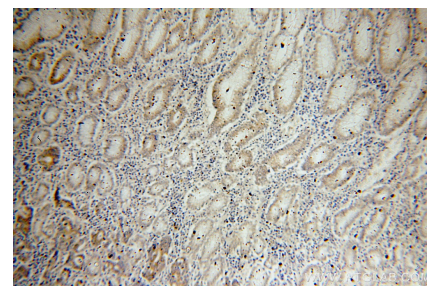
Selected Validation Data



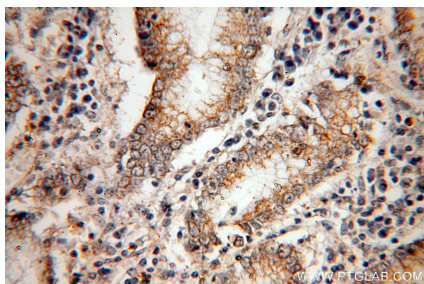
Various lysates were subjected to SDS PAGE followed by western blot with 51137-1-AP (PAK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



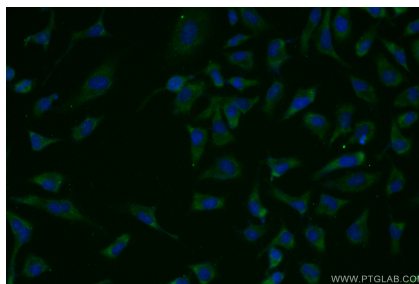
WB result of PAK1 antibody (51137-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-PAK1 transfected HEK-293 cells.



Immunohistochemical analysis of paraffin-embedded human stomach cancer using 51137-1-AP (PAK1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human stomach cancer using 51137-1-AP (PAK1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using PAK1 antibody (51137-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).