

## PAK2 Rabbit mAb

Catalog No: #49859



Package Size: #49859-1 50ul #49859-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

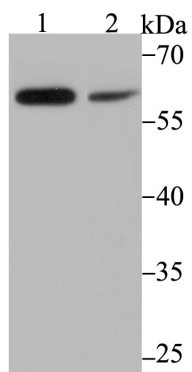
## Description

Product Name	PAK2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB41-84
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	C-t-PAK2 antibody CB422 antibody EC 2.7.11.1 antibody Gamma PAK antibody Gamma-PAK antibody hPAK65 antibody Kinase antibody p21 (CDKN1A) activated kinase 2 antibody p21 (CDKN1A)-activated kinase 2a antibody p21 activated kinase 2 antibody p21 protein (Cdc42/Rac)-activated kinase 2 antibody p21 protein Cdc42 Rac activated kinase 2 antibody p21-activated kinase 2 antibody p21-activated kinase, 65-KD antibody p21-activated protein kinase I antibody p21CDKN1A activated kinase 2 antibody p27 antibody p34 antibody p58 antibody p65PAK antibody PAK 2 antibody PAK-2 antibody PAK-2p34 antibody Pak2 antibody PAK2_HUMAN antibody PAK65 antibody PAKgamma antibody S6 H4 kinase antibody S6/H4 kinase antibody Serine threonine protein kinase PAK 2 antibody Serine/threonine protein kinase PAK 2 antibody
Accession No.	Swiss-Prot#:Q13177
Uniprot	Q13177
GeneID	5062;
Calculated MW	58 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

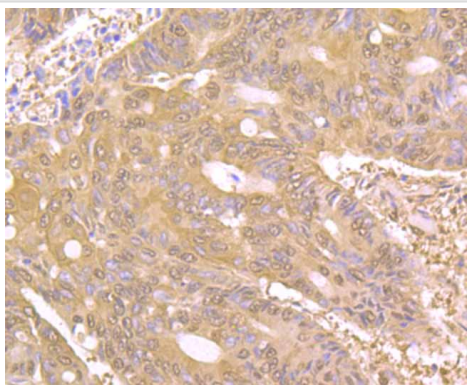
## Application Details

WB: 1:500-1:1,000 IHC: 1:100-1:500 ICC: 1:100-1:500 FC: 1:50-1:100

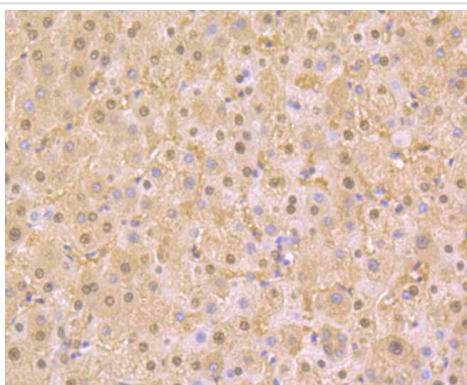
## Images



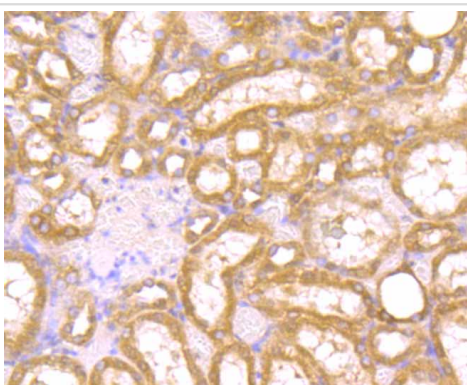
Western blot analysis of PAK2 on mouse thymus tissue (1) and MCF-7 cell (2) lysate using anti-PAK2 antibody at 1/500 dilution.



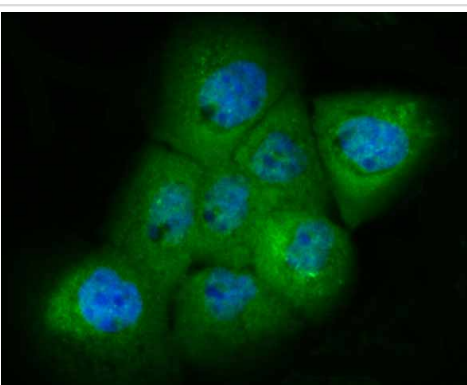
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PAK2 antibody. Counter stained with hematoxylin.



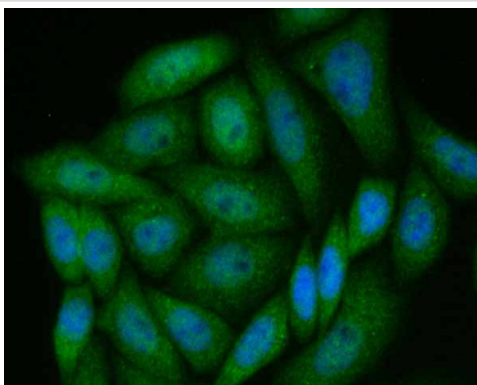
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-PAK2 antibody. Counter stained with hematoxylin.



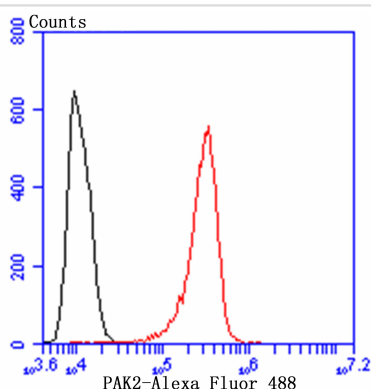
Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-PAK2 antibody. Counter stained with hematoxylin.



ICC staining PAK2 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PAK2 in SiHa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of A431 cells with PAK2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

Three recently identified isoforms of serine/threonine kinases, designated  $\alpha$ PAK p68,  $\beta$ PAK p65 and  $\gamma$ PAK p62, have been shown to exhibit a high degree of sequence homology with the *S. cerevisiae* kinase STE20, involved in pheromone signaling. The  $\alpha$ ,  $\beta$ , and  $\gamma$ PAK isoforms complex specifically with Rac1 and Cdc42 in their active GTP bound state, inhibiting their intrinsic GTPase activity leading to their autophosphorylation. Once phosphorylated and their affinity for Rac/Cdc42 reduced, the PAK isoforms disassociate from the complex to seek downstream substrates. One such putative substrate is MEK kinase, an upstream effector of MEK4 which is involved in the JNK signaling pathway. While the PAK isoforms interact in a GTP-dependent manner with Rac1 and Cdc42, they do not interact with Rho.

## References

Note: This product is for in vitro research use only