Product Datasheet

PKN1 Antibody

Catalog No: #48392

Package Size: #48392-1 50ul #48392-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

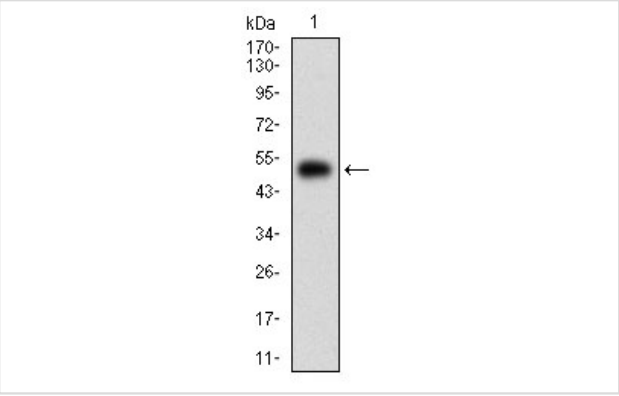
Description

Product Name	PKN1 Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	B1-10H
Purification	ProA affinity purified
Applications	WB, IHC, ICC, FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	DBK antibody PAK 1 antibody PAK-1 antibody PAK1 antibody PKC1 antibody PKN ALPHA antibody PKN antibody Pkn1 antibody PKN1_HUMAN antibody PRK1 antibody PRKCL1 antibody Protease activated kinase 1 antibody Protease-activated kinase 1 antibody Protein kinase C like 1 antibody Protein kinase C like PKN antibody Protein kinase C related kinase 1 antibody Protein kinase C-like 1 antibody Protein kinase C-like PKN antibody Protein kinase N1 antibody Protein kinase PKN alpha antibody Protein kinase PKN-alpha antibody Protein-kinase C-related kinase 1 antibody Serine threonine kinase N antibody Serine threonine protein kinase N antibody Serine-threonine protein kinase N antibody Serine/threonine protein kinase N1 antibody Serine/threonine-protein kinase N1 antibody
Accession No.	Swiss-Prot#:Q16512
Uniprot	Q16512
GeneID	5585;
Calculated MW	104 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

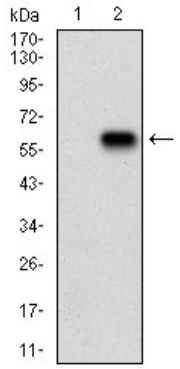
Application Details

WB: 1:500-1:2,000IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

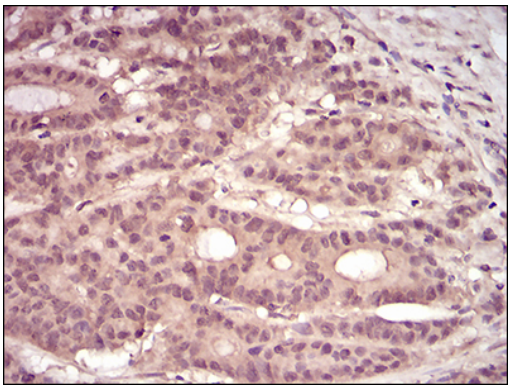
Images



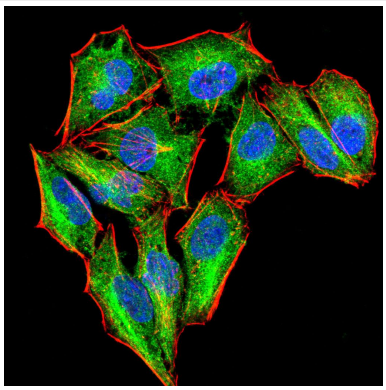
Western blot analysis of PKN1 on human PKN1 recombinant protein using anti-PKN1 antibody at 1/1,000 dilution.



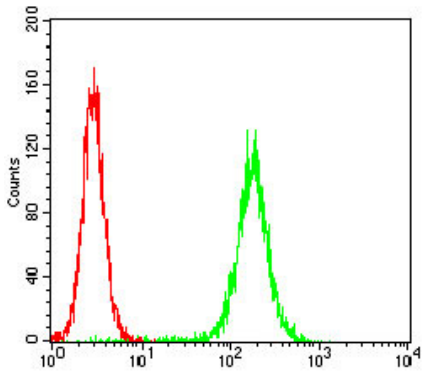
Western blot analysis of PKN1 on HEK293 (1) and PKN1-hIgGFc transfected HEK293 (2) cell lysate using anti-PKN1 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PKN1 antibody. Counter stained with hematoxylin.



ICC staining PKN1 (green) and Actin filaments (red) in Hela cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with PKN1 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).

Background

Rho, the Ras-related small GTPase, is responsible for the regulation of actin-based cytoskeletal structures including stress fibers, focal adhesions and the contractile ring apparatus. Rho proteins act as molecular switches which are able to turn cytokinesis on and off. Although little is know about signaling downstream of Rho, several proteins have been implicated as Rho effectors. Protein kinase N (PKN) is a fatty acid-activated serine/threonine kinase whose catalytic domain exhibits homology with that of the PKC family. PKN associates with Rho via its amino terminus, is activated in a GTP-dependent manner and phosphorylates the head-rod domain of neurofilament protein. A second protein, rhophilin, exhibits 40% sequence identity with the amino terminal Rho binding domain. The enzymatic activity of rhophilin has not been demonstrated and it is possible that it acts through the recruitment of cytoskeletal components that initiate a kinase signaling cascade. Citron interacts specifically with active Rho and Rac1 but

not Cdc42. Citron exhibits a distinctive protein organization and little homology with the Rho binding domains of PKN and rhophilin.

References

Note: This product is for in vitro research use only