

## PDPK1 Rabbit mAb

Catalog No: #49136

Package Size: #49136-1 50ul #49136-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

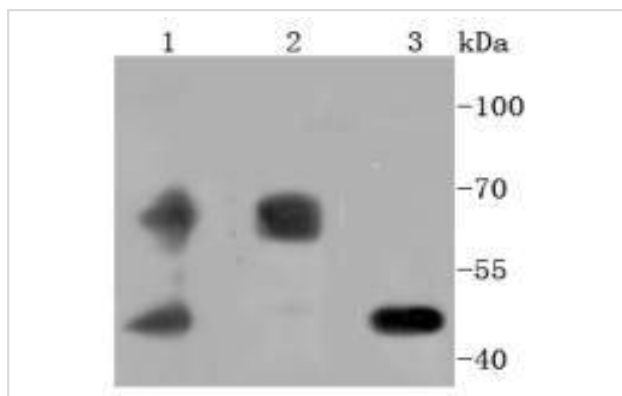
## Description

Product Name	PDPK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD204-9
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	3 phosphoinositide dependent protein kinase 1 antibody 3-phosphoinositide-dependent protein kinase 1 antibody hPDK 1 antibody hPDK1 antibody MGC20087 antibody MGC35290 antibody OTTHUMP00000159109 antibody OTTHUMP00000159110 antibody OTTHUMP00000174525 antibody PDK1 antibody Pdk1 antibody PDPK1_HUMAN antibody PDPK2 antibody PDPK2P antibody PkB kinase antibody PkB kinase like gene 1 antibody PkB like 1 antibody PRO0461 antibody Protein kinase antibody
Accession No.	Swiss-Prot#:O15530
Uniprot	O15530
GeneID	5170;
Calculated MW	63/48 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

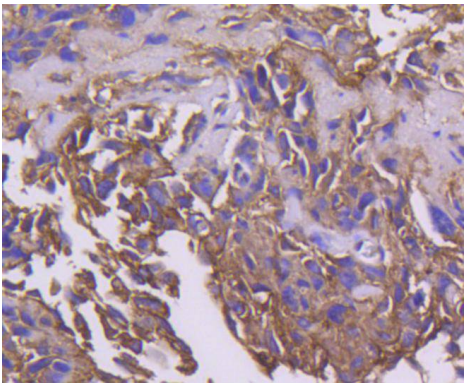
## Application Details

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

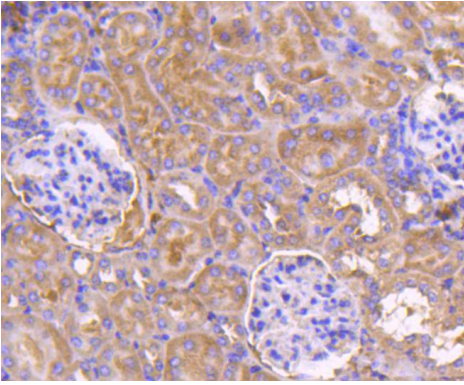
## Images



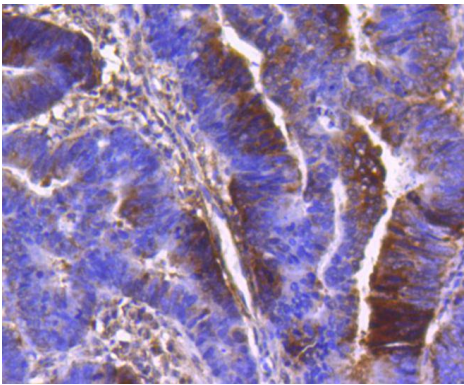
Western blot analysis of PDPK1 on different lysates using anti-PDPK1 antibody at 1/1,000 dilution. Positive control:  
Lane 1: 293T      Lane 2: PC-12 Lane 3: HL-60



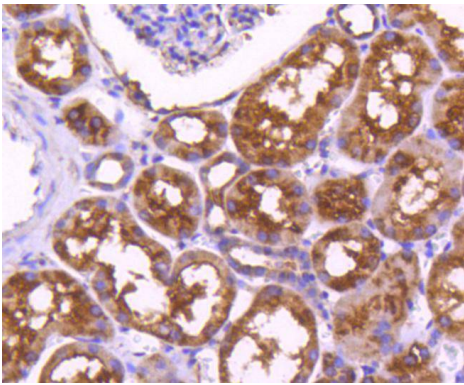
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-PDPK1 antibody. Counter stained with hematoxylin.



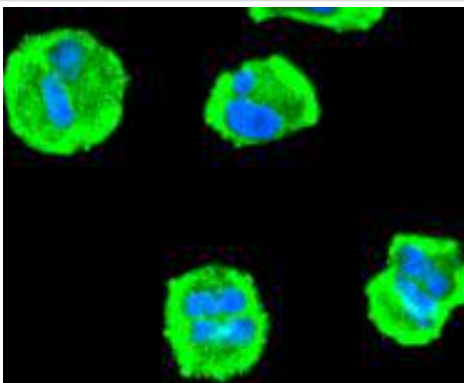
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-PDPK1 antibody. Counter stained with hematoxylin.



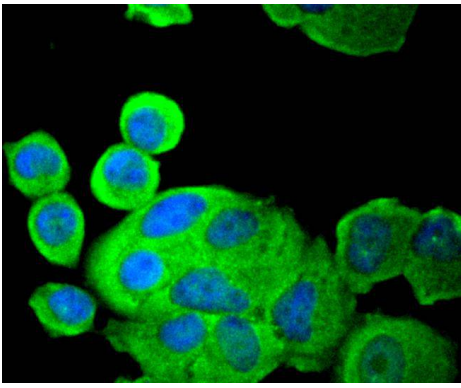
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PDPK1 antibody. Counter stained with hematoxylin.



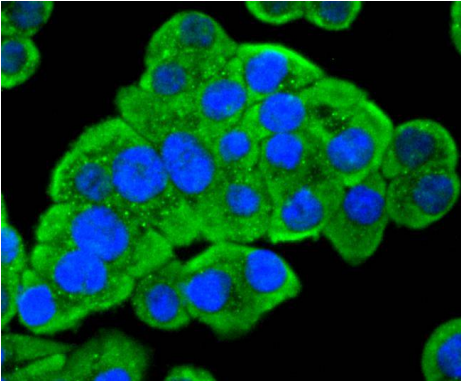
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PDPK1 antibody. Counter stained with hematoxylin.



ICC staining PDPK1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PDPK1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PDPK1 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

PDPK1 (3-phosphoinositide dependent protein kinase 1), also known as PDK1, PDPK2, PDPK2P or PRO0461, is 556 amino acid ubiquitously expressed protein that localizes to the cell membrane, cytoplasm and nucleus. Acting as a master kinase, PDPK1 phosphorylates and activates a subgroup of the AGC family of protein kinases. PDPK1 is involved in mediating signal transduction for controlling proliferation, survival, and growth of developing pancreatic beta cells, regulating  $Ca^{2+}$  uptake and  $Ca^{2+}$ -activated  $K^{+}$  channels of mast cells, regulation of chemotaxis and motility of vascular endothelial cells, cardiac homeostasis, and thymocyte development. Belonging to the protein kinase superfamily, PDPK1 contains a PH domain, which play an essential role in homodimerization, localization and nuclear import of PDPK1, and a protein kinase domain. PDPK1 exists as five alternatively spliced isoforms and is encoded by a gene located on human chromosome 16p13.3.

## References

Note: This product is for in vitro research use only