

Anti-PDPK1 Antibody (6S392)

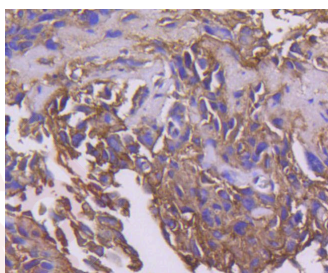
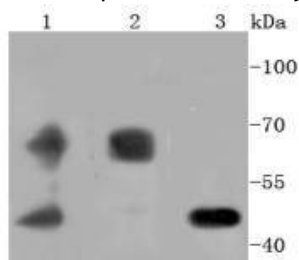
Product Details

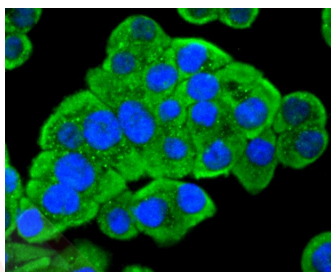
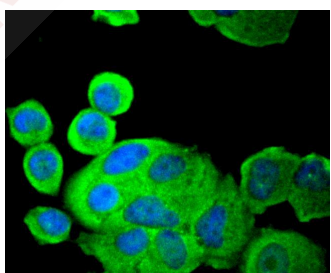
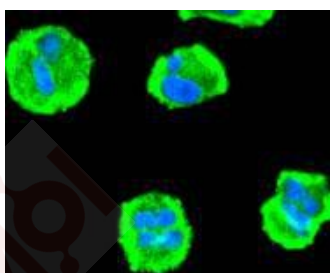
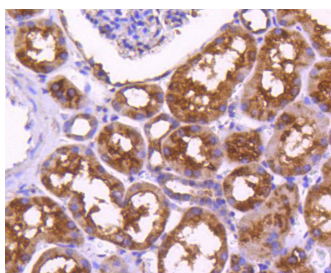
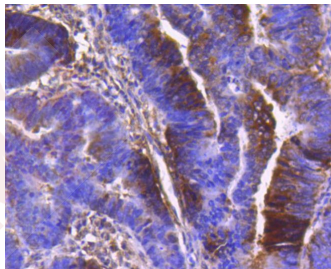
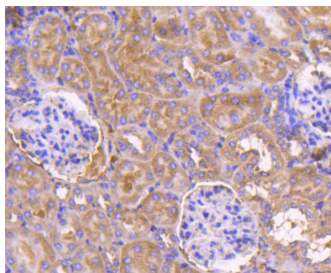
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 63/48 kDa.
Clone:	6S392
Purification:	ProA affinity purified

Applications

Verified Activity:

1. 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.
2. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-PDPK1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-PDPK1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PDPK1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PDPK1 antibody. Counter stained with hematoxylin.
6. 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.
7. 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.
8. 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.





Application: ICC/IF,IHC,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O15530

Synonyms: Pdpk1;Pkb like 1;hPDK1;PDPK2P;Pkb kinase like gene 1;MGC35290;OTTHUMP00000174525; Protein kinase;hPDK 1;3 phosphoinositide dependent protein kinase 1;PDPK1_HUMAN; OTTHUMP00000159110;3-phosphoinositide-dependent protein kinase 1;MGC20087;PDK1;PDPK 2;PRO0461;OTTHUMP00000159109;Pkb kinase

Research 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 Ca²⁺ uptake and Ca²⁺-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.

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