



Rabbit Anti-PDPK1 monoclonal antibody, clone TE315-0 (CABT-L780)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	PDPK1
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TE315-0
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC
Molecular Weight	63/48 kDa
Cellular Localization	Cytoplasm, Nucleus, Cell membrane, Cell junction.
Positive Control	293T, PC-12, HL-60, Hela, MCF-7, SW480, human colon cancer tissue, human breast carcinoma tissue, human kidney tissue, mouse kidney tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	<p>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.</p>
Keywords	<p>3 phosphoinositide dependent protein kinase 1;3-phosphoinositide-dependent protein kinase 1;hPDK 1;hPDK1;MGC20087;MGC35290;OTTHUMP00000159109;OTTHUMP00000159110;OTTHUMP00000174 kinase;Pkb kinase like gene 1;Pkb like 1;PRO0461;Protein kinase antibody</p>