

## PDK1 Antibody

Catalog No: #21005



Package Size: #21005-1 50ul #21005-2 100ul

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## Description

Product Name	PDK1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total PDK1 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.239~243 (A-N-S-F-V) derived from Human PDK1.
Conjugates	Unconjugated
Target Name	PDK1
Other Names	PDPK1, PkB kinase, Protein kinase B kinase, hPDK1, kinase PDK1
Accession No.	Swiss-Prot: O15530NCBI Protein: NP_002604.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

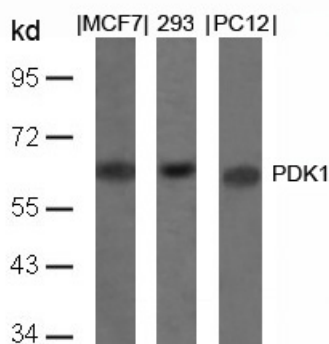
Predicted MW: 63kd

Western blotting: 1:500~1:1000

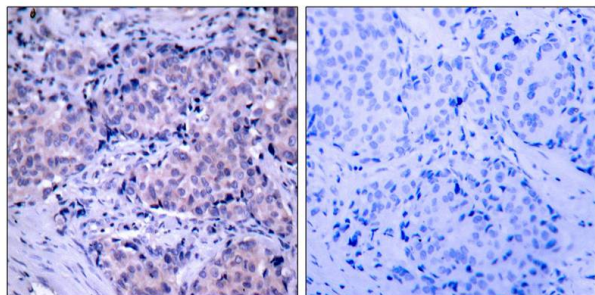
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

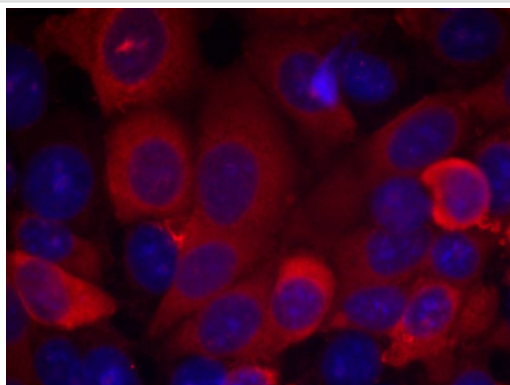
## Images



Western blot analysis of extracts from MCF, 293 and PC12 cells using PDK1(Ab-241) Antibody #21005.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PDK1(Ab-241) Antibody #21005(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed MCF7 cells using PDK1(Ab-241) Antibody #21005.

## Background

Phosphorylates and activates not only PKB/AKT, but also PKA, PKC-zeta, RPS6KA1 and RPS6KB1. May play a general role in signaling processes and in development

Scheid MP, et al. (2005) Mol Cell Biol; 25(6): 2347-63

Chen H, et al. (2001) Biochemistry; 40(39): 11851-9

Sato S, et al. (2002) J Biol Chem; 277(42): 39360-7

Lim MA, et al. (2003) Proc Natl Acad Sci U S A; 100(24): 14006-11

Beausoleil SA, et al. (2004) Proc Natl Acad Sci U S A; 101(33): 12130-5

## Published Papers

Yongheng Cao, Masanori Nakata, Shiki Okamoto et al., PDK1-Foxo1 in Agouti-Related Peptide Neurons Regulates Energy Homeostasis by Modulating Food Intake and Energy Expenditure, PLoS One., 6(4):e18324(2011)

[PMID:21694754](#)

et al., AXL phosphorylates and up-regulates TNS2 and its implications in IRS-1-associated metabolism in cancer cells. In J Biomed Sci On 2018 Nov 12 By Li-Chun Cheng, Yen-Lin Chen et al.. PMID: 30419905, , (2018)

[PMID:30419905](#)

et al., Activation of mammalian target of rapamycin pathway confers adverse outcome in nonsmall cell lung carcinoma ? In Cancer on 2011 Aug 15 by Dan Liu, Yi Huang, et al.. PMID:21387259, , (2011)

[PMID:21387259](#)

et al., Phosphoproteome analysis reveals an important role for glycogen synthase kinase-3 in perfluorododecanoic acid-induced rat liver toxicity. In Toxicol Lett on 2013 Mar 27 by Hongxia Zhang, Junjie Hou, et al.. PMID: 23353032, , (2013)

[PMID:23353032](#)

et al., PDK1-Foxo1 in agouti-related peptide neurons regulates energy homeostasis by modulating food intake and energy expenditure. In PLoS One on 2011 by Yongheng Cao, Masanori Nakata, et al.. PMID: 21694754, , (2011)

[PMID:21694754](#)

el at., Notch-induced hIL-6 production facilitates the maintenance of self-renewal of hCD34+ cord blood cells through the activation of Jak-PI3K-STAT3 pathway. In Am J Pathol  
on 2012 Jan by Bongkum Choi, Eunyoung Chun, et al..PMID:22062221, , (2012)  
[PMID:22062221](#)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.