

PDK1(Phospho-Ser241) Antibody

Catalog No: #11005

Package Size: #11005-1 50ul #11005-2 100ul

Description

Product Name	PDK1(Phospho-Ser241) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of PDK1 only when phosphorylated at serine 241.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 241 (A-N-S(p)-F-V) derived from Human PDK1.
Conjugates	Unconjugated
Target Name	PDK1
Modification	Phospho
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 ²⁺ and Ca ²⁺), 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

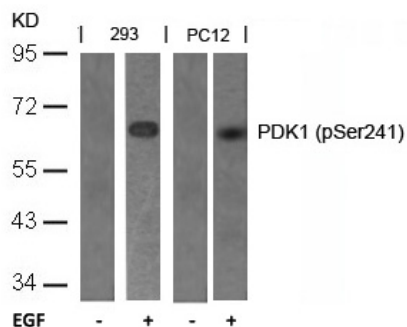
Predicted MW: 63kd

Western blotting: 1:500~1:1000

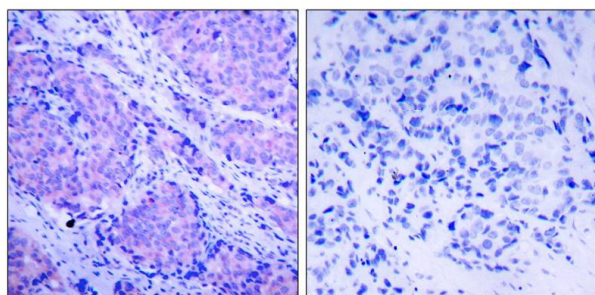
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

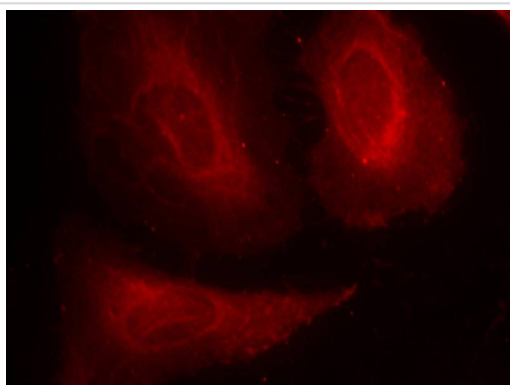
Images



Western blot analysis of extracts from 293 and PC12 cells untreated or treated with EGF using PDK1(Phospho-Ser241) Antibody #11005.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using PDK1(Phospho-Ser241) Antibody #11005(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using PDK1(Phospho-Ser241) Antibody #11005.

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

Published Papers

Dan Liu, Yi Huang, Bojiang Chen et al., Activation of Mammalian Target of Rapamycin Pathway Confers Adverse Outcome in Nonsmall Cell Lung Carcinoma. , Cancer, 117(16):3763-3773(2011)

[PMID:21387259](#)

el at., 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)

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el at., 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](#)

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](#)

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