

PDPK1 (phospho Ser241) Polyclonal Antibody

Catalog No :	YP0222
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	PDPK1
Fields :	>>Platinum drug resistance;>>PPAR signaling pathway;>>FoxO signaling pathway;>>Sphingolipid signaling pathway;>>Autophagy - animal;>>mTOR signaling pathway;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Apoptosis;>>Axon guidance;>>Focal adhesion;>>T cell receptor signaling pathway;>>Fc epsilon RI signaling pathway;>>Neurotrophin signaling pathway;>>Insulin signaling pathway;>>Thyroid hormone signaling pathway;>>Insulin resistance;>>Aldosterone-regulated sodium reabsorption;>>Toxoplasmosis;>>Proteoglycans in cancer;>>Chemical carcinogenesis - reactive oxygen species;>>Endometrial cancer;>>Prostate cancer;>>Non-small cell lung cancer;>>Choline metabolism in cancer;>>Lipid and atherosclerosis
Gene Name :	PDPK1
Protein Name :	3-phosphoinositide-dependent protein kinase 1
Human Gene Id :	5170
Human Swiss Prot No :	O15530
Mouse Gene Id :	18607
Mouse Swiss Prot No :	Q9Z2A0
Rat Gene Id :	81745
Rat Swiss Prot No :	O55173
Immunogen :	The antiserum was produced against synthesized peptide derived from human PDK1 around the phosphorylation site of Ser241. AA range:210-259

Specificity :	Phospho-PDK1 (S241) Polyclonal Antibody detects endogenous levels of PDK1 protein only when phosphorylated at S241.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	63kD
Cell Pathway :	PPAR;mTOR;Focal adhesion;Insulin_Receptor;Aldosterone-regulated sodium reabsorption;Endometrial cancer;Prostate cancer;Non-small cell lung cancer;
Background :	<p>catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function: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 (By similarity). Isoform 3 is catalytically inactive.,PTM:Phosphorylated on tyrosine and serine/threonine. Phosphorylation on Ser-241 in the activation loop is required for full activity. PDK1 itself can autophosphorylate Ser-241, leading to its own activation.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PDK1 subfamily.,similarity:Contains 1 PH domain.,similarity:Contains 1 protein kinase domain.,subcellular location:Membrane-associated after cell stimulation leading to its translocation. Tyrosine phosphorylation seems to occur only at the plasma membrane.,subunit:Interacts with TUSC4.,tissue specificity:Appears to be expressed ubiquitously.,</p>
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Tyrosine phosphorylation seems to occur only at the plasma membrane.,subunit:In

Subcellular Location :

Cytoplasm. Nucleus. Cell membrane; Peripheral membrane protein. Cell junction, focal adhesion. Tyrosine phosphorylation seems to occur only at the cell membrane. Translocates to the cell membrane following insulin stimulation by a mechanism that involves binding to GRB14 and INSR. SRC and HSP90 promote its localization to the cell membrane. Its nuclear localization is dependent on its association with PTPN6 and its phosphorylation at Ser-396. Restricted to the nucleus in neuronal cells while in non-neuronal cells it is found in the cytoplasm. The Ser-241 phosphorylated form is distributed along the perinuclear region in neuronal cells while in non-neuronal cells it is found in both the nucleus and the cytoplasm. IGF1 transiently increases phosphorylation at Ser-241 of neuronal PDPK1, resul

Expression :

Appears to be expressed ubiquitously. The Tyr-9 phosphorylated form is markedly increased in diseased tissue compared with normal tissue from lung, liver, colon and breast.

Tag :

hot

Sort :

11780

No2 :

3438T

No4 :

1

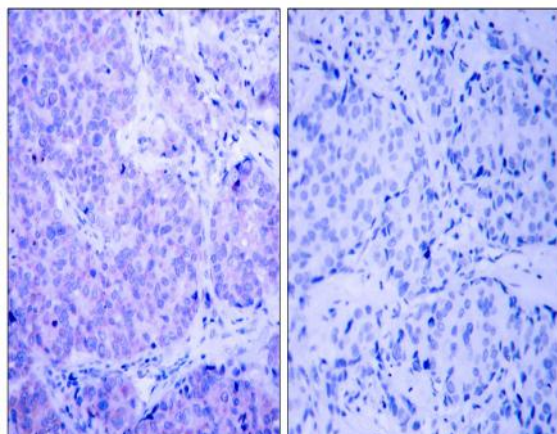
Host :

Rabbit

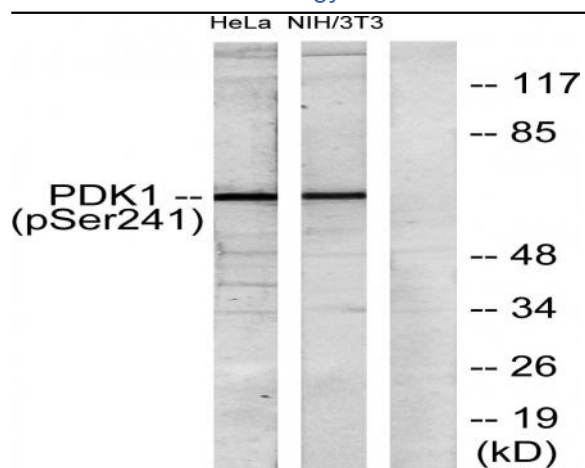
Modifications :

Phospho

Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PDK1 (Phospho-Ser241) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells and NIH/3T3 cells, using PDK1 (Phospho-Ser241) Antibody. The lane on the right is blocked with the phospho peptide.