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PDPK1 Rabbit pAb

CatalogNo: YT3645

Key Features

Host SpeciesRabbit	ReactivityHuman,Mouse,Rat
MW	lsotype
• 60kD (Observed)	• lgG

Applications • IF,WB,IHC,ELISA

Recommended Dilution Ratios

IF 1:50-200 WB 1:500-1:2000 IHC 1:100-1:300 ELISA 1:10000 Not yet tested in other applications

Storage

Storage*-15°C to -25°C/1 year(Do not lower than -25°C)FormulationLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human PDK1. AA range:210-259
Specificity	PDK1 Polyclonal Antibody detects endogenous levels of PDK1 protein.

Target Information

Gene name	PDPK1				
Protein Name	3-phosphoinositide-dependent protein kinase 1 Organism Gene ID UniProt ID				
	Human	<u>5170;</u>	<u>015530;</u>		
	Mouse	<u>18607;</u>	<u>Q9Z2A0;</u>		
	Rat	<u>81745;</u>	<u>055173;</u>		
Cellular Localization	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 while in non-neuronal cells and the cytoplasm. IGF1 transiently increases phosphorylation at Ser-241 of neuronal PDPK1, resulting in its translocation to other cellular compartments. The tyrosine-phosphorylated form colocalizes with PTK2B in focal adhesions after angiotensin II stimulation.				
Tissue specificity	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.				
Function	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.,				

Validation Data

Contact information

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Please scan the QR code to access additional product information: **PDPK1 Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents