



PDHK1 (phospho Ser241) rabbit pAb

Cat#: orb769430 (Manual)

For research use only. Not intended for diagnostic use.

Product Name PDHK1 (phospho Ser241) rabbit pAb

Host species Rabbit

Applications WB;IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA:

1/20000. Not yet tested in other applications.

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..

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name 3-phosphoinositide-dependent protein kinase 1

Gene Name PDPK1

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

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.





Clonality Polyclonal

Concentration 1 mg/ml

Observed band 63kD

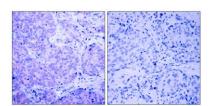
Human Gene ID 5170

Human Swiss-Prot Number O15530

Alternative Names PDPK1; PDK1; 3-phosphoinositide-dependent protein kinase 1; hPDK1

Background

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.,

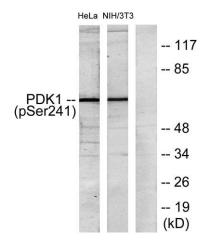


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PDK1 (Phospho-Ser241) Antibody. The picture on the right is blocked with the phospho peptide.





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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.