



## PDHK1 (phospho Tyr9) rabbit pAb

**Cat#: orb769431 (Manual)** 

For research use only. Not intended for diagnostic use.

Product Name PDHK1 (phospho Tyr9) rabbit pAb

Host species Rabbit

Applications IHC;IF;ELISA

Species Cross-Reactivity Human; Mouse; Rat

**Recommended dilutions** Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in

other applications.

Immunogen The antiserum was produced against synthesized peptide derived from

human PDK1 around the phosphorylation site of Tyr9. AA range:1-50

Specificity Phospho-PDK1 (Y9) Polyclonal Antibody detects endogenous levels of

PDK1 protein only when phosphorylated at Y9.

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.





Explore. Bioreagents.

**Clonality** Polyclonal

Concentration 1 mg/ml

**Observed band** 

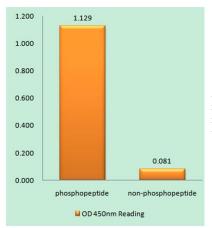
Human Gene ID 5170

**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.,

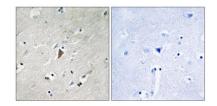


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PDK1 (Phospho-Tyr9) Antibody





Explore. Bioreagents.



Immunohistochemistry analysis of paraffin-embedded human brain, using PDK1 (Phospho-Tyr9) Antibody. The picture on the right is blocked with the phospho peptide.