

Product Name: PDK1 (phospho Tyr9) Rabbit Polyclonal Antibody

Catalog #: APRab05235

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

ApplicationIHC,ICC/IF,ELISAReactivityHuman,Mouse,RatConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000

Molecular Weight

Antigen Information

Gene Name PDPK1

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

 Gene ID
 5170.0

 SwissProt ID
 O15530

The antiserum was produced against synthesized peptide derived from human PDK1 around Immunogen

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

Background

catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Phosphorylates and activates not only PKB/AKT, but also

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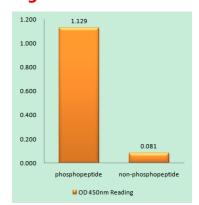


PKA, PKC-zeta, RPS6KA1 and RPS6KB1. May play a general role in signaling processes and in development (By similarity). Isoform 3 is catalytically inactive., PTM: Phosphorylated on tyrosine and serine/threonine. Phosphorylation on Ser-241 in the activation loop is required for full activity. PDK1 itself can autophosphorylate Ser-241, leading to its own activation, similarity: Belongs to the protein kinase superfamily, similarity: Belongs to the protein kinase superfamily. 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, 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. 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.,

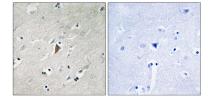
Research Area

Akt_PKB;PPAR;mTOR;Focal adhesion;Insulin_Receptor;Aldosterone-regulated sodium reabsorption;Endometrial cancer;Prostate cancer;Non-small cell lung cancer;

Image Data



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



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

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