

## PDK1(Phospho Tyr9) Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP12901
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PDK1 around the phosphorylation site of Tyr9. AA range:1-50
<b>Mol wt</b>	63152
<b>Species reactivity</b>	Human, Mouse, Rat
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	IHC-p, IF, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	3-phosphoinositide-dependent protein kinase 1
<b>Synonyms</b>	3-phosphoinositide-dependent protein kinase 1; PDPK1; PDK1; 3-phosphoinositide-dependent protein kinase 1; hPDK1

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

### Background

Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,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.,Belongs to the protein kinase superfamily.,Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PDK1 subfamily.,Contains 1 PH domain.,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.,

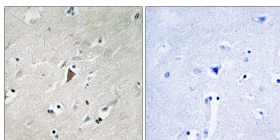
### Recommended Dilution

IHC-p: 1: 100 - 1: 300

ELISA: 1: 40000

Not yet tested in other applications.

### Images



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

### Storage

-20°C for 1 year