

Product datasheet for **AP12874PU-N**

PDPK1 pSer396 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	ELISA: 1/1,000. Dot Blot: 1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S396 of human PDPK1.
Specificity:	This antibody detects PDPK1 pSer396.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity purification in a 2-step procedure with the control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	3-phosphoinositide dependent protein kinase 1
Database Link:	Entrez Gene 5170 Human O15530



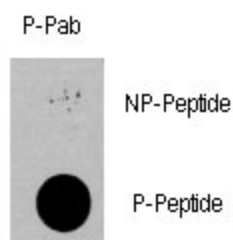
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Background: PDPK1 (3 Phosphoinositide Dependent Protein Kinase 1) phosphorylates AGC kinases. PDPK1 activates conventional PKC and PKC zeta through phosphorylation of critical threonine residues in the activation loop. PDPK1 also phosphorylates Protein Kinase B (PKB) at threonine 308 in the presence of phosphatidylinositol-3,4,5-trisphosphate. Active Akt inactivates Glycogen Synthase Kinase 3 (GSK3), eventually leading to the dephosphorylation and activation of glycogen synthase, and the stimulation of glycogen synthesis. Because of the role that PDPK1 plays in insulin-induced glycogen synthesis and PKC activation, it is a potentially important target for metabolic drug research.

Synonyms: PDK-1, PDK1, 3-phosphoinositide-dependent proteinkinase 1, hPDK1, PDPK1

Note: **Molecular weight:** 63151 Da

Product images:



Dot blot analysis of anti-PDPK1-pSer396 Phospho-specific Pab (Cat#AP12874PU-N) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Dot Blot