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# Recombinant Phospho-PDPK1 (Ser241) Monoclonal Antibody

catalog number: AN301308L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Reactivity Human; Mouse; Rat

Immunogen A synthetic peptide corresponding to residues around (Ser241) of Human Phospho-

PDPK1

 Host
 Rabbit

 Isotype
 IgG,κ

 Clone
 B1071

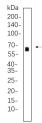
 Purification
 Protein A

**Buffer** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

**WB** 1:2000-1:10000

#### Data



Western Blot with Recombinant Phospho-PDPK1 (Ser241)

Monoclonal Antibody at dilution of 1:1000 dilution. Lane A:

HEK293 whole cell lysate.

Observed-MW:63 kDa Calculated-MW:63 kDa

### **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

#### **Background**

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., 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.

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