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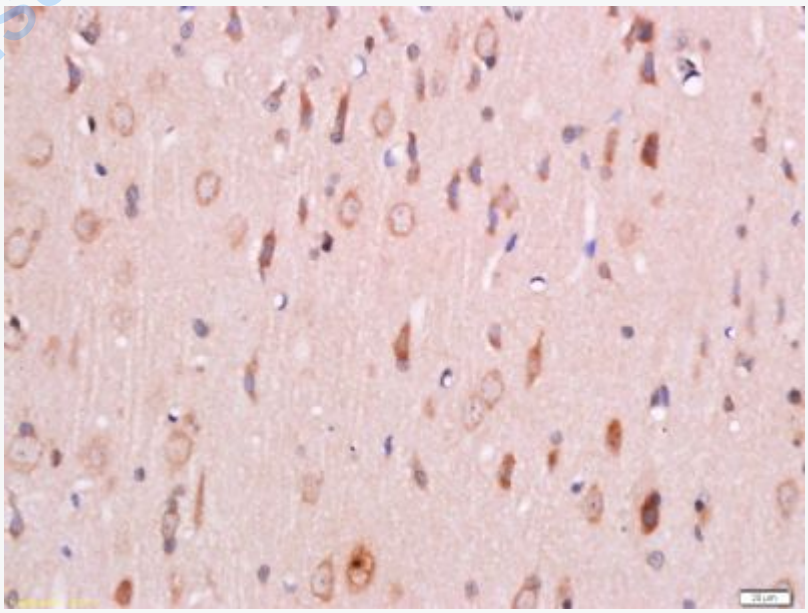
Rabbit Anti-Phospho-PDK1 (Ser241) antibody

SL3327R

Product Name:	Phospho-PDK1 (Ser241)
Chinese Name:	磷酸化3磷酸肌醇依赖性蛋白激酶1
Alias:	PDK1(Phospho-Ser241); PDPK1 (phospho S241); PDPK1(phospho-S241); 3 phosphoinositide dependent protein kinase 1; hPDK 1; hPDK1; MGC20087 MGC35290; PDK 1; PDPK 1; PDPK1; PkB kinase; PkB kinase like gene 1; PkB like 1; PkB like; PRO0461; PDPK1_HUMAN.
文献引用 PubMed :	**Specific References(1)**|SL3327R has been referenced in 1 publications. **[IF=2.19]**Lin, Yuan-xiang, et al. "Similar PDK1-AKT-mTOR pathway activation in balloon cells and dysmorphic neurons of typeII focal cortical dysplasia with refractory epilepsy." Epilepsy Research (2015).**IHC-P;Human**. PubMed:25847349
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	61kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human PDPK1 around the phosphorylation site of Ser241:AN(p-S)FV
Lsotype:	IgG
Purification:	affinity purified by Protein A

Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	PDK1 (3 Phosphoinositide Dependent Protein Kinase 1) phosphorylates AGC kinases. PDK1 activates conventional PKC and PKC zeta through phosphorylation of critical threonine residues in the activation loop. PDK1 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 PDK plays in insulin-induced glycogen synthesis and PKC activation it is a potentially important target for metabolic drug research. There are three named isoforms. **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. **Subunit:** Interacts with NPRL2. **Subcellular Location:** Cytoplasm. Membrane. Membrane-associated after cell stimulation leading to its translocation. Tyrosine phosphorylation seems to occur only at the plasma membrane. **Tissue Specificity:** Appears to be expressed ubiquitously. **Post-translational modifications:** 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. Contains 1 PH domain. Contains 1 protein kinase domain. **SWISS:** O15530 **Gene ID:**

	5170 **Database links:** Entrez Gene: 5170Human Entrez Gene: 18607Mouse Entrez Gene: 81745Rat Omim: 605213Human SwissProt: O15530Human SwissProt: Q9Z2A0Mouse SwissProt: O55173Rat Unigene: 459691Human Unigene: 10504Mouse Unigene: 10905Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. PDK1是蛋白激酶B(PKB)的上游激酶，通过与3，4，5三磷酸磷脂酰肌醇作用激活相邻的PKB分子。
Picture:	

	Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-PDK1 Polyclonal Antibody, Unconjugated(SL3327R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining