

For Research Use Only

# Phospho-PDK1 (Ser241) Polyclonal antibody



Catalog Number: 29241-1-AP

## Basic Information

<b>Catalog Number:</b> 29241-1-AP	<b>GenBank Accession Number:</b> BC012103	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 200 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5170	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>Full Name:</b> 3-phosphoinositide dependent protein kinase-1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 556 aa, 63 kDa	
	<b>Observed MW:</b> 60-63 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : PDGF treated PC-3 cells, PDGF treated NIH/3T3 cells
<b>Species Specificity:</b> Human, mouse	

## Background Information

3-Phosphoinositide dependent protein kinase-1 (PDK1 or PDK1) is a serine-threonine kinase belonging to AGC kinase family. PDK1 plays a critical role in establishing ACD (Asymmetric cell division) in the epithelium (PMID: 27184845). The kinase activity of PDK1 depends on phosphatidylinositol 3-kinase (PI3K), a key intermediate in signaling pathways including those from growth factor receptors and adhesion molecules. Substrates of PDK1, including AKT and the protein kinase C (PKC) isozymes, regulate a number of essential cell functions (PMID: 20027184). PDK1 has 5 isoforms produced by alternative splicing of 48-63 kDa and is detected as 60-63 kDa.

## Storage

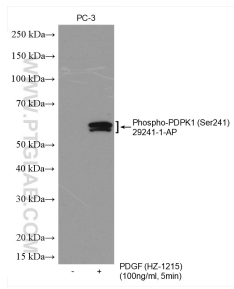
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide, 50% glycerol pH 7.3 and 0.05% BSA  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

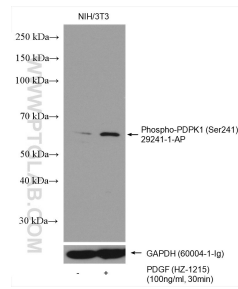
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Non-treated PC-3 and PDGF (HZ-1215) treated PC-3 cells were subjected to SDS PAGE followed by western blot with 29241-1-AP (Phospho-PDPK1 (Ser241) antibody) at dilution of 1:1000 incubated at 4°C overnight.



Non-treated NIH/3T3 and PDGF (HZ-1215) treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 29241-1-AP (Phospho-PDPK1 (Ser241) antibody) at dilution of 1:2000 incubated at 4°C overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.