

# Phospho-PDPK1 (Ser241) Polyclonal antibody

Catalog Number: 29241-1-AP

1 Publications

## Basic Information

## Catalog Number:

29241-1-AP

## Size:

200 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## GenBank Accession Number:

BC012103

## GeneID (NCBI):

5170

## UNIPROT ID:

O15530

## Full Name:

3-phosphoinositide dependent protein kinase-1

## Calculated MW:

556 aa, 63 kDa

## Observed MW:

60-63 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:2000

## Applications

## Tested Applications:

WB, ELISA

## Cited Applications:

WB

## Species Specificity:

Human, mouse

## Cited Species:

human

## Positive Controls:

WB : PDGF treated PC-3 cells, PDGF treated NIH/3T3 cells

## Background Information

3-Phosphoinositide dependent protein kinase-1 (PDK1 or PDPK1) 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 phosphatidyl inositol 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). PDPK1 has 5 isoforms produced by alternative splicing of 48-63 kDa and is detected as 60-63 kDa.

## Notable Publications

| Author         | Pubmed ID | Journal  | Application |
|----------------|-----------|----------|-------------|
| Narendra Thapa | 38630589  | Cell Rep | WB          |

## 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

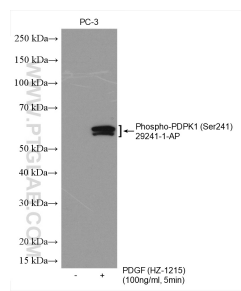
For technical support and original validation data for this product please contact:

T: 4006900926

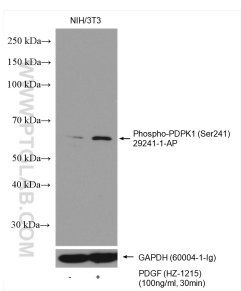
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## Selected Validation Data



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.