

For Research Use Only

# Phospho-PRKD1 (Ser916) Recombinant antibody

Catalog Number: 80080-2-RR



## Basic Information

### Catalog Number:

80080-2-RR

### Size:

100ul , Concentration: 1000 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_001330069

### GeneID (NCBI):

5587

### UNIPROT ID:

Q15139

### Full Name:

protein kinase D1

### Calculated MW:

102 kDa

### Observed MW:

115 kDa

### Purification Method:

Protein A purification

### CloneNo.:

241786A11

### Recommended Dilutions:

WB 1:1000-1:4000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

human, mouse

### Positive Controls:

WB : NIH/3T3 cells, λ phosphatase treated NIH/3T3 cells

## Background Information

Protein kinase D1 (PRKD1), also named as PKD1 and PKC $\mu$ , is comprised of two cysteine-rich domains and a pleckstrin homology (PH) domain. PKD1 is involved in cellular processes including protein secretion, proliferation, cytoskeletal reorganization, Golgi function, immune function and apoptosis. It is widely expressed in thyroid, brain, heart, lung and other tissues. PKCs have been shown to regulate PKD1 activation. It has been reported that ser 916 is a PKD1 autophosphorylation site. PKD1 can be activated by growth factors, oxidative stress, thrombin, bioactive lipids, cross-linking of B- and T-cell receptors and some G-protein coupled receptors (GPCR). PKD1 is located mainly in the cytoplasm in unstimulated cells, while PKD1 migrates to the membrane in activated cells. (PMID: 17306383, 24806360, 30101477, 21696630)

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

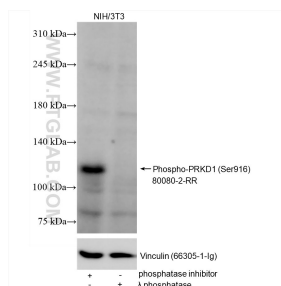
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## Selected Validation Data



Non-treated NIH/3T3 cells, phosphatase inhibitor treated NIH/3T3 cells and  $\lambda$  phosphatase treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80080-2-RR (Phospho-PRKD1 (Ser916) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Vinculin (66305-1-Ig) antibody as a loading control.