For Research Use Only

Phospho-PRKD1 (Ser916) Recombinant antibody

Catalog Number:80080-2-RR

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Antibodies | ELISA kits | Proteins
Uni-rAb
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Basic Information

Catalog Number:
80080-2-RR

Size:
1000 μg/ml

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 purfication

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 μ, 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

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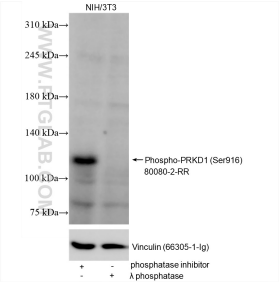
Selected Validation Data



Non-treated NIH/3T3 cells, phosphatase inhibitor treated NIH/3T3 cells and λ 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.