For Research Use Only

Phospho-PKC Delta (Ser645) Recombinant monoclonal antibody, PBS Only

Catalog Number:87213-1-PBS

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
87213-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_006254

GeneID (NCBI):
5580

UNIPROT ID:
Q05655

Full Name:
protein kinase C, delta

Calculated MW:
78 kDa

Observed MW:
78 kDa

Purification Method:
Protein A purification

CloneNo.:
252421F11

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

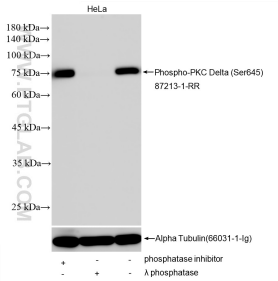
Protein kinase C (PKC) was initially identified and characterized as a protein hydrolysis-activated kinase called protein kinase M. It has been established that PKC is a family of at least 12 serine/threonine kinases that is divided into three subfamilies: The classical PKCs (α, β1, β2, and γ), which are activated by diacylglycerol (DAG) and calcium; the novel PKCs (δ, ε, η, and θ) which are activated by DAG; and the atypical PKCs (ζ and λ/ι), which respond to neither DAG nor calcium. Phospho-PKC Delta (Ser645) refers to the phosphorylated form of Protein Kinase C Delta (PKCδ) at serine residue 645. This phosphorylation site is located in the C-terminal tail of PKCδ, specifically in the turn motif region, and serves as a critical "priming" phosphorylation that regulates enzyme stability and catalytic activity. (PMID: 28784722) This antibody is equivalent to Ser643 in mice.

Storage

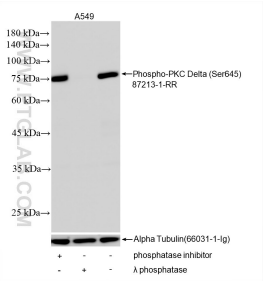
Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

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
W: ptglab.com

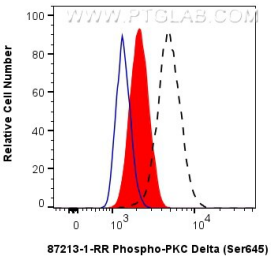
Selected Validation Data



Non-treated HeLa cells, phosphatase inhibitor treated HeLa cells and λ phosphatase treated HeLa cells were subjected to SDS PAGE followed by western blot with 87213-1-RR (Phospho-PKC Delta (Ser645) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 87213-1-



Non-treated A549 cells, phosphatase inhibitor treated A549 cells and λ phosphatase treated A549 cells were subjected to SDS PAGE followed by western blot with 87213-1-RR (Phospho-PKC Delta (Ser645) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control. This data was developed using the same antibody clone with 87213-1-



1X10^6 A549 cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.13 ug Phospho-PKC Delta (Ser645) Recombinant monoclonal antibody (87213-1-RR, Clone:252421F11) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.13 ug Isotype Control (blue). Cells were fixed and permeabilized with Flow Cytometry Phosphorylated Protein Fixation/Permeabilization Kit (PF00026).