

For Research Use Only

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

Catalog Number: 87213-1-PBS



Basic Information

Catalog Number:	87213-1-PBS	GenBank Accession Number:	NM_006254	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	5580	CloneNo.:	252421F11
Isotype:	IgG	UNIPROT ID:	Q05655		
		Full Name:	protein kinase C, delta		
		Calculated MW:	78 kDa		
		Observed MW:	78 kDa		

Applications

Tested Applications:
WB, FC (Intra), 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 , β 1, β 2, 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 (PKC δ) at serine residue 645. This phosphorylation site is located in the C-terminal tail of PKC δ , 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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

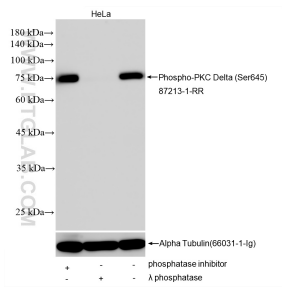
T: 4006900926

E: Proteintech-CN@ptglab.com

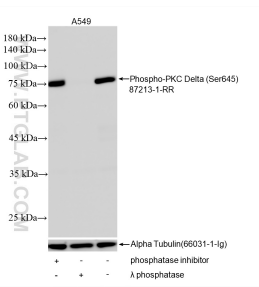
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

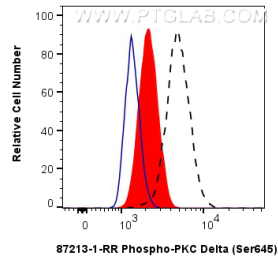
Selected Validation Data



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-



1X10⁶ 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).