For Research Use Only

Phospho-PKC Delta (Ser359) Polyclonal antibody

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

Catalog Number:29562-1-AP 1 Publications

Basic Information

Catalog Number:
29562-1-AP

Size:
300 μg/ml

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC043350

GeneID (NCBI):
5580

UNIPROT ID:
Q05655

Full Name:
protein kinase C, delta

Calculated MW:
78 kDa

Observed MW:
70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IF/ICC 1:50-1:500

Applications

Tested Applications:
IF/ICC, WB, ELISA

Cited Applications:
WB

Species Specificity:
Human

Cited Species:
rat, mouse

Positive Controls:

WB : λ phosphatase treated Jurkat cells,

IF/ICC : λ phosphatase treated A431 cells,

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. PKC δ , unlike other members of the PKC family, is unique in its regulation by tyrosine phosphorylation on multiple sites that determine activation, localization, and substrate specificity. PKC δ is activated by inflammatory mediators involved in the inflammatory response including lipopolysaccharide (LPS), tumor necrosis factor (TNF) and interleukin-1 (IL-1). PKC δ activation requires multi-phosphorylation steps which triggers translocation from the cell cytosol to different subcellular compartments. (PMID: 30095599, PMID: 31323909, PMID: 30917487)

Notable Publications

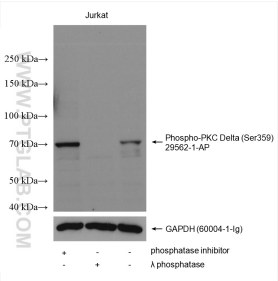
Author	Pubmed ID	Journal	Application
Qian Jiang	37444485	Cancers (Basel)	WB

Storage

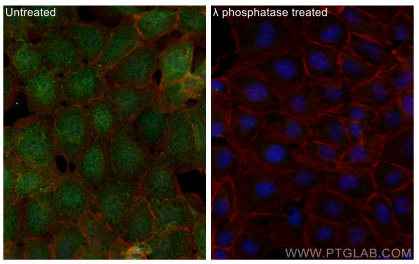
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Non-treated Jurkat, phosphatase inhibitor treated and λ phosphatase treated Jurkat cells were subjected to SDS PAGE followed by western blot with 29562-1-AP (Phospho-PKC Delta (Ser359) antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



Immunofluorescent analysis of (4% PFA) fixed λ phosphatase treated A431 cells using Phospho-PKC Delta (Ser359) antibody (29562-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).