

PKC δ (Phospho Ser359) Rabbit pAb

CatalogNo: YP1442

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC

MW

- 78kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human PKC δ (Ser359)

Specificity This antibody detects endogenous levels of Human Mouse PKC δ (phospho-Ser359)

Target Information

Gene name PRKCD

Protein Name Protein kinase C delta type (Ser359)

Organism	Gene ID	UniProt ID
Human	5580 ;	Q05655 ;
Mouse	18753 ;	P28867 ;
Rat	170538 ;	P09215 ;

Cellular Localization

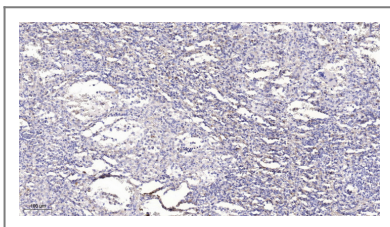
Cytoplasm . Cytoplasm , perinuclear region . Nucleus . Cell membrane ; Peripheral membrane protein . Mitochondrion . Endomembrane system . Translocates to the mitochondria upon apoptotic stimulation. Upon activation , translocates to the plasma membrane followed by partial location to the endolysosomes (PubMed:17303575) . .

Tissue specificity Epithelium ,Hippocampus ,Liver ,Platelet ,Skin ,

Function

Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,Domain:The C1 domain , containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B) , is the diacylglycerol sensor. ,Domain:The C2 domain is a non-calcium binding domain. It binds proteins containing phosphotyrosine in a sequence-specific manner. ,enzyme regulation:Three specific sites; Thr-507 (activation loop of the kinase domain) , Ser-645 (turn motif) and Ser-664 (hydrophobic region) , need to be phosphorylated for its full activation. ,Function:This is calcium-independent , phospholipid-dependent , serine- and threonine-specific enzyme. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters , a class of tumor promoters. May play a role in antigen-dependent control of B-cell function. Phosphorylates MUC1 in the C-terminal and regulates the interaction between MUC1 and beta-catenin. ,PTM:Phosphorylated on Thr-507 , within the activation loop. Autophosphorylated and/or phosphorylated. Although the Thr-507 phosphorylation occurs it is not a prerequisite for enzymatic activity. ,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily. ,similarity:Contains 1 AGC-kinase C-terminal domain. ,similarity:Contains 1 C2 domain. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers. ,subunit:Interacts with PDK1 , RAD9A , CDCP1 and MUC1. ,

Validation Data



Immunohistochemical analysis of paraffin-embedded human spleen. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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