

**产品名称: PKC  $\delta$  (phospho Tyr64) Rabbit Polyclonal Antibody**  
**产品货号: APRab05262**



## 产品概述 (Summary)

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| 产品名称 (Production Name) | PKC $\delta$ (phospho Tyr64) Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                              |
| 宿主 (Host)              | Rabbit                                                  |
| 应用 (Application)       | WB,IHC                                                  |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat                                         |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Phosphorylated                                                                                    |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | PRKCD                                                                                                                                          |
| 别名 (Alternative Names) | PRKCD; Protein kinase C delta type; Tyrosine-protein kinase PRKCD; nPKC-delta                                                                  |
| 基因 ID (Gene ID)        | 5580.0                                                                                                                                         |
| 蛋白 ID (SwissProt ID)   | Q05655.The antiserum was produced against synthesized peptide derived from human PKCD around the phosphorylation site of Tyr64. AA range:30-79 |

## 产品应用 (Application)

|                          |                                |
|--------------------------|--------------------------------|
| 稀释比 (Dilution Ratio)     | WB 1:500-1:2000,IHC 1:50-1:300 |
| 蛋白分子量 (Molecular Weight) | 77kDa                          |

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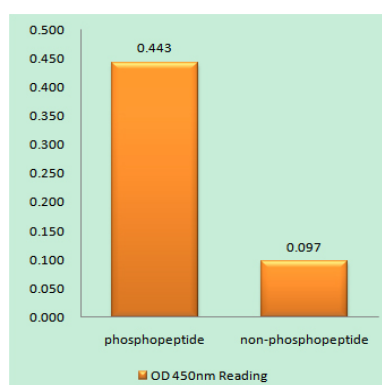
## 研究背景 (Background)

Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play distinct roles in cells. The protein encoded by this gene is one of the PKC family members. Studies both in human and mice demonstrate that this kinase is involved in B cell signaling and in the regulation of growth, apoptosis, and differentiation of a variety of cell types. Alternatively spliced transcript variants encoding the same protein have been observed. [provided by RefSeq, Jul 2008],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.,

## 研究领域 (Research Area)

Regulation\_Microtubule; Regulation of Actin Dynamics; Stem cell pathway; Insulin Receptor; B Cell Receptor; AMPK

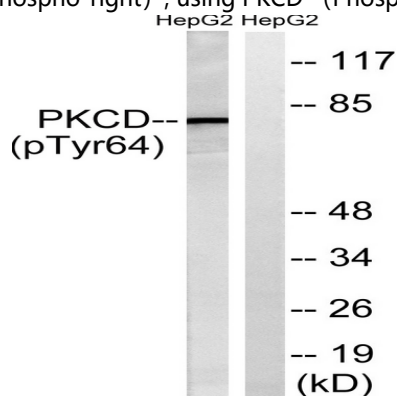
## 图片 (Image Data)



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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PKCD (Phospho-Tyr64) Antibody



Western blot analysis of lysates from HepG2 cells treated with PMA 125ng/ml 30', using PKCD (Phospho-Tyr64) Antibody. The lane on the right is blocked with the phospho peptide.

#### 注意事项 (Note)

For research use only.