

产品名称: PKC β (phospho Ser661) Rabbit Polyclonal Antibody
产品货号: APRab05257



产品概述 (Summary)

产品名称 (Production Name)	PKC β (phospho Ser661) Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
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)	PRKCB
别名 (Alternative Names)	PRKCB; PKCB; PRKCB1; Protein kinase C beta type; PKC-B; PKC-beta
基因 ID (Gene ID)	5579.0
蛋白 ID (SwissProt ID)	P05771.The antiserum was produced against synthesized peptide derived from human PKCB around the phosphorylation site of Ser661. AA range:622-671

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
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 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 a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress.

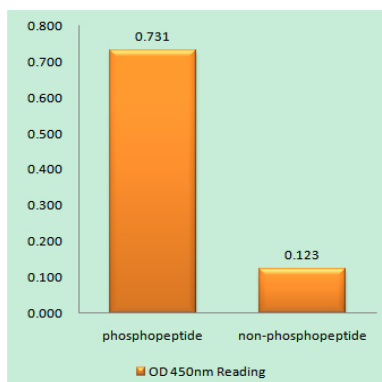
catalytic activity: ATP + a protein = ADP + a phosphoprotein.
cofactor: Binds 3 calcium ions per subunit. The ions are bound to the C2 domain.
function: This is a calcium-activated, phospholipid-dependent, serine- and threonine-specific enzyme. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters. May be considered as a novel component of the NF-kappa-B signaling axis responsible for the survival and activation of B-cells after BCR cross-linking.
PTM: Phosphorylation on Thr-500 of isoform beta-I, within the activation loop, renders it competent to autophosphorylate. Subsequent autophosphorylation of Thr-642 maintains catalytic competence, and autophosphorylation on Ser-661 appears to release the kinase into the cytosol. Similarly, isoform beta-II is autophosphorylated on 'Thr-640' and 'Ser-659', subsequent to phosphorylation on Thr-500. Autophosphorylated on other sites i.e. in the N-terminal and hinge regions have no effect on PKC 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 (By similarity). Interacts in vitro with PRKCBP1.

研究领域 (Research Area)

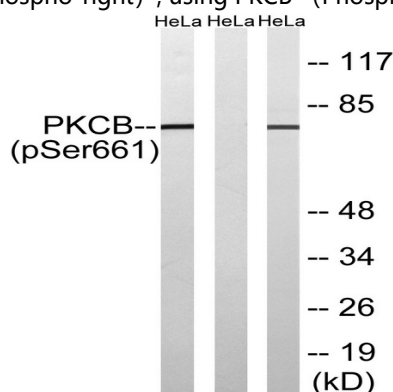
Regulation_Microtubule; Regulation of Actin Dynamics; Stem cell pathway; Insulin Receptor; ErbB/HER; MAPK_ERK_Growth; MAPK_G_Protein; WNT; WNT-T CELL; β -Catenin; B Cell Receptor; NF_kappaB; mTOR; AMPK

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 PKCB (Phospho-Ser661) Antibody



Western blot analysis of lysates from HeLa cells treated with heat shock, using PKCB (Phospho-Ser661) Antibody. The lane on the right is blocked with the phospho peptide.

注意事项 (Note)

For research use only .