

Product Name: PKC α (phospho Thr638) Rabbit Polyclonal Antibody Catalog #: APRab05255

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

ApplicationWB,IHC,ICC/IF,ELISAReactivityHuman,Mouse,RatConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000

Molecular Weight 76kDa

Antigen Information

Gene Name PRKCA

Alternative Names PRKCA; PKCA; PRKACA; Protein kinase C alpha type; PKC-A; PKC-alpha

 Gene ID
 5578.0

 SwissProt ID
 P17252

The antiserum was produced against synthesized peptide derived from human PKC alpha Immunogen

around the phosphorylation site of Thr638. AA range:606-655

Background

Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the

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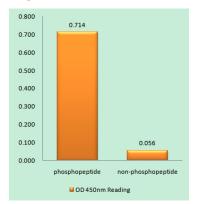


second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a 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 kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes. [provided by RefSeq, Jul 2catalytic activity:ATP + a protein = ADP + a phosphoprotein, cofactor:Binds 3 calcium ions per subunit. The ions are bound to the C2 domain.,function: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.,function:This is a calcium-activated, phospholipid-dependent, serine- and threonine-specific enzyme. May play a role in cell motility by phosphorylating CSPG4,similarity:Belongs to the protein kinase superfamily.,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 ADAP1/CENTA1, CSPG4 and PRKCABP. Binds to SDPR in the presence of phosphatidylserine..

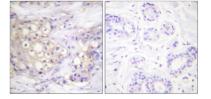
Research Area

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; PI3K/Akt; mTOR; AMPK

Image Data



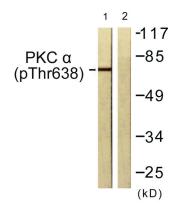
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PKC alpha (Phospho-Thr638) Antibody



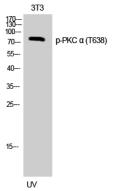
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PKC alpha (Phospho-Thr638) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from NIH/3T3 cells treated with UV 15 ', using PKC alpha (Phospho-Thr638) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of 3T3 cells using Phospho-PKC α $\,$ (T638) $\,$ Polyclonal Antibody