

Product Name: PKC θ (phospho Ser676) Rabbit Polyclonal Antibody Catalog #: APRab05266

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 1:200-1:1000,ELISA 1:5000-1:10000

Molecular Weight 82kDa

Antigen Information

Gene Name PRKCQ

Alternative Names PRKCQ; PRKCT; Protein kinase C theta type; nPKC-theta

 Gene ID
 5588.0

 SwissProt ID
 Q04759

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

around the phosphorylation site of Ser676. AA range:643-692

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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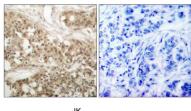


second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipid-dependent protein kinase. This kinase is important for T-cell activation. It is required for the activation of the transcription factors NFkappaB and AP-1, and may link the T cell receptor (TCR) signaling complex to the activation of the transcription factors. [provided by RefSeq, Jul 2008],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,domain:The C1 domain, containing the phorbol ester/DAG-type region 1 (C1A) and 2 (C1B), is the diacylglycerol sensor and the C2 domain is a non-calcium binding domain, enzyme regulation: Three specific sites; Thr-538 (activation loop of the kinase domain), Ser-676 (turn motif) and Ser-695 (hydrophobic region), need to be phosphorylated for its full activation., 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-independent, phospholipid-dependent, serine- and threonine-specific enzyme. Essential for T-cell receptor (TCR)-mediated T-cell activation, but is dispensable during TCR-dependent thymocyte development. Links the TCR signaling complex to the activation of NF-kappa-B in mature T lymphocytes. Required for interleukin-2 (IL2) production, PTM: Autophosphorylation at Thr-219 is required for targeting to the TCR and cellular function of PKC upon antigen receptor ligation., 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/DAGtype zinc fingers., subunit: Interacts with TXNL2/PICOT., tissue specificity: Skeletal muscle, megakaryoblastic cells and platelets.,

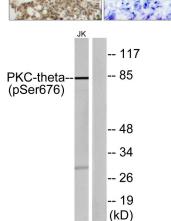
Research Area

Regulation Microtubule; Regulation of Actin Dynamics; Stem cell pathway; Insulin Receptor; NF kappaB; B Cell Receptor; AMPK

Image Data



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using PKC thet (Phospho-Ser676) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with PMA 200nM 30 $^{\prime}$, using PKC thet (Phospho-Ser676) Antibody. The lane on the right is blocked with the phospho peptide.

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