

Recombinant Human PRKCQ cell lysate

Cat. No. PRKCQ-1416HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species

Human

Description

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 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 NF-kappaB and AP-1, and may link the T cell receptor (TCR) signaling complex to the activation of the transcription factors.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

GENE INFORMATION

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Gene Name	PRKCQ protein kinase C, theta [Homo sapiens]
Official Symbol	PRKCQ
Synonyms	PRKCQ; protein kinase C, theta; protein kinase C theta type; PRKCT; nPKC-theta; MGC126514; MGC141919;
Gene ID	5588
mRNA Refseq	NM_001242413
Protein Refseq	NP_001229342
MIM	600448
UniProt ID	Q04759
Chromosome Location	10p15
Pathway	Adaptive Immune System, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic executionphase, organism-specific biosystem; Axon guidance, organism-specific biosystem;
Function	ATP binding; metal ion binding; nucleotide binding; protein binding; protein kinase C activity; protein serine/threonine kinase activity; protein serine/threonine kinase activity;

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