

Recombinant Full Length Human Protein Kinase C, Zeta, GST-tagged, Active

Cat. No. PRKCZ-409H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant full-length human PRKCZ was expressed by *baculovirus* in *Sf9* insect cell using an N-terminal GST tag. MW=93kDa.

Species

Human

Source

Sf9 Cells

Protein Length

1-592 a.a.

Description

PKC ζ is an atypical isoform of the PKC family. PKC ζ is found in both particulate and soluble fractions and cannot be activated by phorbol ester. Overexpression of PKC ζ and subsequent phorbol ester treatment abolished phorbol ester-induced reduction in cell proliferation. Overexpression of PKC ζ also potentiates phorbol ester-induced mitogen-activated protein (MAP) kinase activation in a PKC-dependent manner. PKC ζ is an upstream modulator of p70S6K, an important regulator of cell proliferation.

Sequence

Full-length.

Applications

Kinase Assay, Western Blot.

Storage And Stability

Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	PRKCZ protein kinase C, zeta [Homo sapiens]
Synonyms	PRKCZ; protein kinase C, zeta; PKC2; PKC-ZETA; EC 2.7.11.13; nPKC-zeta; Protein kinase C zeta type
Gene ID	5590
mRNA Refseq	NM_001033581
Protein Refseq	NP_001028753
MIM	176982
UniProt ID	Q05513
Chromosome Location	1p36.33-p36.2
Pathway	Chemokine signaling pathway; Endocytosis; Insulin signaling pathway; Tight junction; Type II diabetes mellitus
Function	ATP binding; insulin receptor substrate binding; metal ion binding; nucleotide binding; phospholipase binding; potassium channel regulator activity; protein kinase C activity; transferase activity; zinc ion binding

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