

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 <i>baculovirus</i> in <i>Sf9</i> insect cell/s using an N-terminal GST tag. MW=93kDa.
Species	Human
Source	Sf9 Cells
Protein Length	1-592 a.a.
Description	PKCζ is an atypical isoform of the PKC family. PKCζ is found in both particulate and soluble fractions and cannot be activated by phorbol ester. Overexpression of PKCζ and subsequent phorbol ester treatment abolished phorbol ester-induced reduction in cell proliferation. Overexpression of PKCζ also potentiates phorbol ester-induced mitogen-activated protein (MAP) kinase activation in a PKC-dependent manner. PKCζ 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 –70oC. 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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