

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

Cat. No. PRKCQ-408H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human PRKCQ was expressed by baculovirus in Sf9 insect cell using an N-terminal GST tag. MW=110 kDa.
Species	Human
Source	Sf9 Cells
Protein Length	1-706 a.a.
Description	Protein Kinase C, theta (PKCθ) is important component in the intracellular signaling cascade. Recent studies have suggested that local accumulation of fat metabolites inside skeletal muscle may activate a serine kinase cascade involving PKC-theta leading to defects in insulin signaling and glucose transport in skeletal muscle. Insulin resistance plays a primary role in the development of type 2 diabetes and may be related to alterations in fat metabolism. PKC-theta is a crucial component mediating fat-induced insulin resistance in skeletal muscle and is a potential therapeutic target for the treatment of type 2 diabetes.
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

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performance, avoid repeated handling and multiple freeze/thaw cycles.

Bio-activity 792 nmol/min/mg

GENE INFORMATION

Gene Name PRKCQ protein kinase C, theta [Homo sapiens]

Synonyms PRKCQ; protein kinase C, theta; PRKCT; MGC126514; MGC141919; nPKC-theta; Protein kinase C theta type; EC 2.7.11.13

Gene ID 5588

mRNA Refseq NM_006257

Protein Refseq NP_006248

MIM 600448

UniProt ID Q04759

Chromosome Location 10p15

Pathway Adipocytokine signaling pathway; T cell receptor signaling pathway; Tight junction; Vascular smooth muscle contraction; Apoptosis; Signaling in Immune system

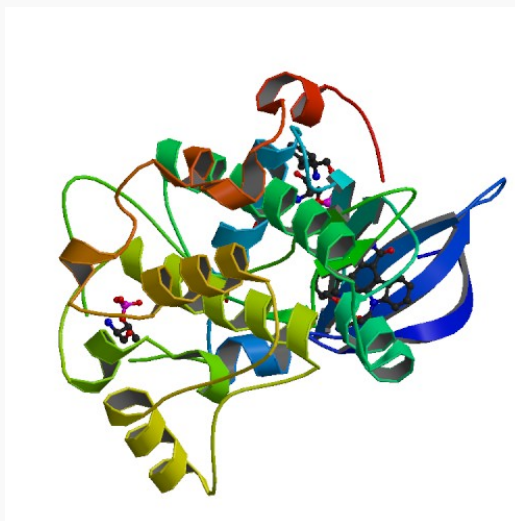
Function ATP binding; calcium ion binding; nucleotide binding; protein kinase C activity; transferase activity; zinc ion binding

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PDB rendering based
on 1xjd.



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