Recombinant Human Protein Kinase C, Beta, GST-tagged, Active

Cat. No. PRKCB-399H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human full-length PKCbeta I was expressed by baculovirus in*Sf9 cell*susing an N-terminal GST tag. MW=102 kDa.
Species	Human
Source	Sf9 Cells
Description	PKCβI is a member of the PKC family (phospholipid-dependent serine/threonine kinase) and is highly related to PKCβ II. Unlike the mature PKCβ II mRNA and protein, which rapidly increase following acute insulin treatment, the PKCβI mRNA and protein levels remain unchanged. The stable overexpression of PKCbetaII, but not PKCβI, leads to insulin-stimulated glucose uptake into cells. Upon stimulation of B lymphocytes and mast cells, Syk regulates Btk, and Btk selectively regulates enzymatic activity of PKCβI. Specific regulation of PKCβI by Btk is consistent with the selective association of Btk with PKCβI.
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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	PRKCB protein kinase C, beta [Homo sapiens]
Synonyms	PRKCB; protein kinase C, beta; PKCB; PRKCB1; PRKCB2; MGC41878; PKC-beta; Protein kinase C beta type; EC 2.7.11.13; PKC-B; protein kinase C, beta 1; protein kinase C, beta 1 polypeptide
Gene ID	5579
mRNA Refseq	NM_002738
Protein Refseq	NP_002729
UniProt ID	P05771
Chromosome Location	16p12
MIM	176970
Pathway	B cell receptor signaling pathway; Calcium signaling pathway; Chemokine signaling pathway; ErbB signaling pathway; Fc epsilon RI signaling pathway; Fc gamma R-mediated phagocytosis; Focal adhesion; Glioma; GnRH signaling pathway; Leukocyte transendothelial migration; Long-term depression; Long-term potentiation; Non-small cell lung cancer; Pathways in cancer; Phosphatidylinositol signaling system; Tight junction; VEGF signaling pathway; Vascular smooth muscle contraction; Vibrio cholerae infection; Wnt signaling pathway; Hemostasis; Synaptic Transmission
Function	ATP binding; calcium ion binding; nucleotide binding; protein binding; protein kinase C activity; transferase activity; zinc ion binding

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