

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 PKC β I was expressed by baculovirus in Sf9 cell using an N-terminal GST tag. MW=102 kDa.
Species	Human
Source	Sf9 Cells
Description	PKC β I is a member of the PKC family (phospholipid-dependent serine/threonine kinase) and is highly related to PKC β II. Unlike the mature PKC β II mRNA and protein, which rapidly increase following acute insulin treatment, the PKC β I mRNA and protein levels remain unchanged. The stable overexpression of PKC β I, but not PKC β II, 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 PKC β I. Specific regulation of PKC β I by Btk is consistent with the selective association of Btk with PKC β I.
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	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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