

Recombinant Human Protein Kinase C, Beta

Cat. No. PRKCB-649H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PRKCB is produced in <i>Baculoviral insect expression system</i> .
Species	Human
Source	Insect 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.
Format	Purified, Liquid.
Concentration	20ug/ml.
Buffer	Suspended in SDS/mercaptoethanol sample buffer with a bromophenol blue dye marker.
Applications	Suitable for use as a standard in Western blot using enhanced chemiluminescence. Use 2-5ul directly from vial (no dilution necessary). For blots using less sensitive

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substrates, such as alkaline phosphatase, larger amount of protein should be loaded onto the gel. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Inactivation	Not applicable.
Important Note	Centrifuge before opening to ensure complete recovery of vial contents.
Storage	Short term (up to 1 year) store at –20°C. Long term, store at –70°C.

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
MIM	176970
UniProt ID	P05771
Chromosome Location	16p11.2

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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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