

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

**Cat. No.** PRKCB-1302H    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinanthuman full length PRKCB with N-terminal GST tag was expressed in Sf9 insectcells.                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>            | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>       | PRKCB isa member of the protein kinase C (PKC) family of serine- andthreonine-specific protein kinases that can be activated by calcium andsecond messenger diacylglycerol and phosphorylate a wide variety of proteintargets known to be involved in diverse cellular signaling pathways. PRKCBhas been reported to be involved in many different cellular functions such asB-cell activation, apoptosis induction, endothelial cell proliferation, andintestinal sugar absorption. |
| <b>Form</b>              | Liquid in50 mM Tris-HCl, pH 7.5 + 150 mM NaCl + 0.25 mM DTT + 0.1 mM EGTA + 0.1 mMEDTA + 0.1 mM PMSF + 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Weight</b>  | ~ 150 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>            | > 90% asdetermined by densitometry                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Concentration</b>     | 0.1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Specific Activity</b> | 368nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Storage             | Stablefor 1 year in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.                                                                                                                                             |                                                                                                                                                                                                                 |  |
| OfficialSymbol      | PRKCB                                                                                                                                                                                                                         |                                                                                                                                                                                                                 |  |
| nullValue__other    | Function                                                                                                                                                                                                                      | nucleotide binding; proteinbinding; protein kinase activity; protein serine/threonine kinase activity; zincion binding; metal ion binding; histone kinase activity (H3-T6 specific); enzymebinding; ATP binding |  |
| Full Length         | Full L.                                                                                                                                                                                                                       |                                                                                                                                                                                                                 |  |
| GENE INFORMATION    |                                                                                                                                                                                                                               |                                                                                                                                                                                                                 |  |
| Gene Name           | PRKCB protein kinase C, beta [ Homosapiens ]                                                                                                                                                                                  |                                                                                                                                                                                                                 |  |
| Synonyms            | PRKCB; proteinkinase C, beta; PKCB; PRKCB1; PRKCB2; MGC41878; PKC-beta; proteinkinase C, beta 1; OTTHUMP00000162377; OTTHUMP00000162378; Protein kinase C, betatype; PKC-B;EC 2.7.11.13; protein kinase C, beta 1 polypeptide |                                                                                                                                                                                                                 |  |
| Gene ID             | 5579                                                                                                                                                                                                                          |                                                                                                                                                                                                                 |  |
| mRNA Refseq         | NM_002738                                                                                                                                                                                                                     |                                                                                                                                                                                                                 |  |
| Protein Refseq      | NP_002729                                                                                                                                                                                                                     |                                                                                                                                                                                                                 |  |
| MIM                 | 176970                                                                                                                                                                                                                        |                                                                                                                                                                                                                 |  |
| UniProt ID          | P05771                                                                                                                                                                                                                        |                                                                                                                                                                                                                 |  |
| Chromosome Location | 16p12                                                                                                                                                                                                                         |                                                                                                                                                                                                                 |  |

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**Pathway**

African trypanosomiasis; Aldosterone-regulated sodium reabsorption; Alpha6-Beta4 Integrin Signaling Pathway; Amoebiasis; Ca-dependent events; CaM pathway; Calcium Regulation in the Cardiac Cell; Calcium signaling pathway; Calmodulin induced events; Canonical NF-kappaB pathway; Cholinergic synapse; DAG and IP3 signaling; Disinhibition of SNARE formation; Dopaminergic synapse

**Rendering based  
on PDB 1a25.** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA