

## 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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|                        |  |  |
|------------------------|--|--|
| <b>Storage</b>         | Stable for 1 year in working aliquots at -80°C. Avoid repeated freeze-thaw cycles. |  |
| <b>Official Symbol</b> | PRKCB  |  |
| <b>nullValue_other</b> | Function   | nucleotide binding; protein binding; protein kinase activity; protein serine/threonine kinase activity; zinc ion binding; metal ion binding; histone kinase activity (H3-T6 specific); enzyme binding; ATP binding |
| <b>Full Length</b>     | Full L.  |  |

## GENE INFORMATION

|                            |   |  |
|----------------------------|---|--|
| <b>Gene Name</b>           | <a href="#">PRKCB protein kinase C, beta [ Homosapiens ]</a>  |  |
| <b>Synonyms</b>            | PRKCB; protein kinase C, beta; PKCB; PRKCB1; PRKCB2; MGC41878; PKC-beta; protein kinase C, beta 1; OTTHUMP00000162377; OTTHUMP00000162378; Protein kinase C, beta type; PKC-B; EC 2.7.11.13; protein kinase C, beta 1 polypeptide |  |
| <b>Gene ID</b>             | <a href="#">5579</a>  |  |
| <b>mRNA Refseq</b>         | <a href="#">NM_002738</a>   |  |
| <b>Protein Refseq</b>      | <a href="#">NP_002729</a>   |  |
| <b>MIM</b>                 | <a href="#">176970</a>  |  |
| <b>UniProt ID</b>          | <a href="#">P05771</a>  |  |
| <b>Chromosome Location</b> | 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.**

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