

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

Cat. No. PRKCB-400H    Lot. No. (See product label)

### SPECIFICATION

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Product Overview      | Recombinant human full-length PKCbeta II was expressed by baculovirus in Sf9 cell using an N-terminal GST tag. MW=105 kDa.                                                                                                                                                                                                                                                                                                                                                                                    |
| Species               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Source                | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Description           | PKC $\beta$ II is a member of the protein kinase C (PKC) family of serine- and threonine-specific protein kinases that can be activated by calcium and second messenger diacylglycerol and phosphorylate a wide variety of protein targets known to be involved in diverse cellular signaling pathways. PKC $\beta$ II has been reported to be involved in many different cellular functions such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. |
| Sequence              | Full-length.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Applications          | Kinase Assay, Western Blot.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Storage And Stability | Store product at $-70^{\circ}\text{C}$ . 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.                                                                                                                                                                                                                                                      |

### GENE INFORMATION

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| <b>Gene Name</b>           | PRKCB protein kinase C, beta [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>            | 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                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene ID</b>             | 5579                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>         | NM_002738                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_002729                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | P05771                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Chromosome Location</b> | 16p12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>                 | 176970                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | 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 |
| <b>Function</b>            | ATP binding; calcium ion binding; nucleotide binding; protein binding; protein kinase C activity; transferase activity; zinc ion binding                                                                                                                                                                                                                                                                                                                                                                                                                                         |