

## PKC beta I Recombinant Protein | PKCbetal recombinant protein

PKC beta I, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73859</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

### PRODUCT SYNONYMS

PKC beta I; Active; PKCB; PRKCB; PRKCB2; MGC41878; PKC-beta; PKCbetal recombinant protein

### PRODUCT SPECIFICATIONS

|                                                          |                                                                                                                                                                                                                                                |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                     | Sf9 insect cells                                                                                                                                                                                                                               |
| Form/Format                                              | Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, 25% glycerol.                                                                                                                  |
| Applicable Applications for PKCbetal recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                |
| Tag                                                      | GST                                                                                                                                                                                                                                            |
| Species                                                  | Human                                                                                                                                                                                                                                          |
| Dry Ice Note                                             | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage                                  | Store product at -70 degree 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. |

### IMAGES



#### SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



#### Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

### ADDITIONAL INFORMATION

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| Related Product Information for PKCbetal recombinant protein | <p>Recombinant full-length human PKCbeta I was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is X06318.</p> <p>PKCbetal is a member of the PKC family (phospholipid-dependent serine/threonine kinase) and is highly related to PKCbeta II. Unlike the mature PKCbeta II mRNA and protein, which rapidly increase following acute insulin treatment, the PKCbetal mRNA and protein levels remain unchanged (1). The stable overexpression of PKCbetall, but not PKCbetal, 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 PKCbetal. Specific regulation of PKCbetal by Btk is consistent with the selective association of Btk with PKCbetal (2).</p> |
| Product Categories/Family for PKCbetal recombinant protein   | <a href="#">Protein Kinases</a> ; <a href="#">Apoptosis/Autophagy</a> ; <a href="#">Cardiovascular Disease</a> ; <a href="#">ERK/MAPK Pathway</a> ; <a href="#">Neurobiology</a> ; <a href="#">NfκB Pathway</a> ; <a href="#">PKA/PKC Pathway</a> ; <a href="#">Ser/Thr Kinases</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                                   | <p>1. Cooper, D R. et al: Ectopic expression of protein kinase Cbetall, -delta, and -epsilon, but not -betal or -zeta, provide for insulin stimulation of glucose uptake in NIH-3T3 cells. Arch Biochem Biophys. 1999 Dec 1;372(1):69-79.</p> <p>2. Kawakami, Y. et al: Regulation of protein kinase Cbetal by two protein-tyrosine kinases, Btk and Syk. Proc Natl Acad Sci U S A. 2000 Jun 20;97(13):7423-8.</p>                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                     |         |
|---------------------|---------|
| UniProt Accession # | X06318  |
| Molecular Weight    | ~102kDa |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pkc-beta-i-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73859>