

## PKC alpha Recombinant Protein | PKCalpha recombinant protein

PKC alpha, Active

|                              |                                 |                                     |
|------------------------------|---------------------------------|-------------------------------------|
| CATALOG #<br><b>AAA73857</b> | HOST<br><b>Sf9 insect cells</b> | APPLICATIONS<br><b>Western Blot</b> |
|------------------------------|---------------------------------|-------------------------------------|

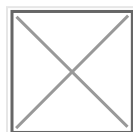
### PRODUCT SYNONYMS

PKC alpha; Active; PRKCA; MGC82897; PKCalpha 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 PKCalpha recombinant protein | WB (Western Blot), Kinase Assay                                                                                                                                                                                                                |
| Tag                                                      | GST                                                                                                                                                                                                                                            |
| Species                                                  | Xenopus                                                                                                                                                                                                                                        |
| 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 PKCalpha recombinant protein | Recombinant full-length xenopus PKC alpha was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is BC078065.<br>PKCalpha is a member of the protein kinase C (PKC) family of serine-and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC-alpha has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control(1). PKCalpha has been assigned to the chromosome region 17q22-q23.2 and has been identified as a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes (2). |
| Product Categories/Family for PKCalpha 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                                                   | 1. Coussens, L. et al: Multiple, distinct forms of bovine and human protein kinase C suggest diversity in cellular signaling pathways. Science 233: 859-866, 1986.<br>2. Braz, J C. et al: PKC-alpha regulates cardiac contractility and propensity toward heart failure. Nature Med. 10: 248-254, 2004.                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| NCBI GI #                        | 50604097                                     |
| NCBI GeneID                      | 447031                                       |
| Molecular Weight                 | 103.0 kDa                                    |
| NCBI Official Full Name          | Xenopus laevis protein kinase C, alpha, mRNA |
| NCBI Official Synonym Full Names | protein kinase C, alpha L homeolog           |
| NCBI Official Symbol             | prkca.L                                      |
| NCBI Official Synonym Symbols    | XPKCI; prkca; prkca.S; pkcalpha; pkc-alpha   |
| NCBI Protein Information         | protein kinase C, alpha L homeolog           |

**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-alpha-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73857>