

## Recombinant Xenopus Prkca, GST-tagged, Active

Cat. No. Prkca-397X Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant xenopus full-length PKCalpha was expressed by baculovirus in Sf9 cells using an N-terminal GST tag. MW=103 kDa.
<b>Source</b>	Sf9 Cells
<b>Description</b>	PKC $\alpha$ 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. PKC $\alpha$ 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.
<b>Sequence</b>	Full-length.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	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

**Gene Name** *prkca* protein kinase C, alpha [ *Xenopus laevis* ]

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<b>Synonyms</b>	Prkca; protein kinase C, alpha; MGC82897; EC 2.7.11.1
<b>Gene ID</b>	<a href="#">447031</a>
<b>mRNA Refseq</b>	<a href="#">NM_001093673</a>
<b>Protein Refseq</b>	<a href="#">NP_001087142</a>
<b>Pathway</b>	Calcium signaling pathway; ErbB signaling pathway; Focal adhesion; MAPK signaling pathway; Melanogenesis; Natural killer cell mediated cytotoxicity; Phosphatidylinositol signaling system; Tight junction; VEGF signaling pathway; Vascular smooth muscle contraction; Wnt signaling pathway

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