

**PKCa, Active recombinant protein**  
**PKC, Protein kinase C alpha (PKC $\alpha$ ),**  
**Catalog # PBV11290r****Specification**

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**PKCa, Active recombinant protein - Product info**

Primary Accession	<a href="#">P17252</a>
Concentration	<b>0.1</b>
Calculated MW	<b>103.0 kDa KDa</b>

**PKCa, Active recombinant protein - Additional Info**

Gene ID	<b>5578</b>
Gene Symbol	<b>PKCA</b>

**Other Names**PKC, Protein kinase C alpha (PKC $\alpha$ ),

Source	<b>Baculovirus (Sf9 insect cells)</b>
Assay&Purity	<b>SDS-PAGE; <math>\geq 90\%</math></b>
Assay2&Purity2	<b>HPLC;</b>
Recombinant	<b>Yes</b>

**Format**

Liquid

**Storage**

-80°C; Recombinant proteins in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).

**PKCa, Active recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PKCa, Active recombinant protein - Images****PKCa, Active recombinant protein - Background**

Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor

promoters. 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. Coussens defined a new family of PKC-related genes and termed  $\alpha$ ,  $\beta$ , and  $\gamma$  (1). Latos-Bielenska refined the assignment of PRKCA1 to 17q22-q23.2 (2). Braz identified PKC- $\alpha$  as a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes in study of knockout mice (3).

#### **PKCa, Active recombinant protein - References**

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