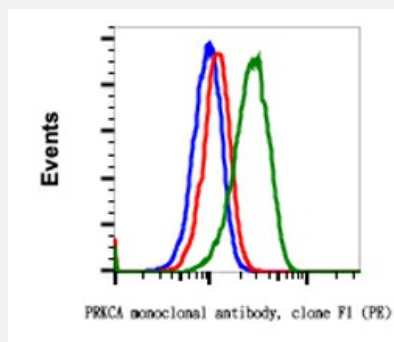


# PRKCA (phospho T497) monoclonal antibody, clone F1 (PE)

Catalog # MAB23370

Size 100 Reactions

## Applications



### Flow Cytometry

Flow cytometric analysis of NIH3T3 with PRKCA (phospho Thr497) monoclonal antibody, clone F1 (PE)(Cat # MAB23370). Unstained as negative control (blue) or treated with imatinib (red) or treated with pervanadate (green).

## Specification

<b>Product Description</b>	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human PRKCA.
<b>Immunogen</b>	A synthetic phospho-peptide corresponding to residues surrounding Thr497 of human phospho PKC alpha
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Conjugation</b>	PE
<b>Isotype</b>	IgG1, kappa
<b>Recommend Usage</b>	Flow Cytometry (5 uL/million cells) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% NaN <sub>3</sub> , 0.2% BSA)
<b>Storage Instruction</b>	Store at 4°C. Do not freeze.

## Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Flow Cytometry

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## Gene Info — PRKCA

Entrez GeneID [5578](#)

Protein Accession# [P17252](#)

Gene Name PRKCA

Gene Alias AAG6, MGC129900, MGC129901, PKC-alpha, PKCA, PRKACA

Gene Description protein kinase C, alpha

Omim ID [176960](#)

Gene Ontology [Hyperlink](#)

## Gene Summary

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. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. This kinase has been reported to play roles in many different cellular processes, such as cell adhesion, cell transformation, cell cycle checkpoint, and cell volume control. Knockout studies in mice suggest that this kinase may be a fundamental regulator of cardiac contractility and Ca(2+) handling in myocytes. [provided by RefSeq]

Other Designations aging-associated gene 6|protein kinase C alpha type

## Pathway

- [Calcium signaling pathway](#)
- [ErbB signaling pathway](#)

- [Fc epsilon RI signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Leukocyte transendothelial migration](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [MAPK signaling pathway](#)
- [Melanogenesis](#)
- [Natural killer cell mediated cytotoxicity](#)
- [Non-small cell lung cancer](#)
- [Pathogenic Escherichia coli infection - EHEC](#)
- [Pathways in cancer](#)
- [Phosphatidylinositol signaling system](#)
- [Tight junction](#)
- [Vascular smooth muscle contraction](#)
- [VEGF signaling pathway](#)
- [Vibrio cholerae infection](#)
- [Wnt signaling pathway](#)

## Disease

- [Adenocarcinoma](#)
- [Asthma](#)

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Liver Cirrhosis](#)
- [Mental Disorders](#)
- [Multiple Sclerosis](#)
- [Obesity](#)
- [Pancreatic Neoplasms](#)
- [Premature Birth](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)
- [Vaginosis](#)