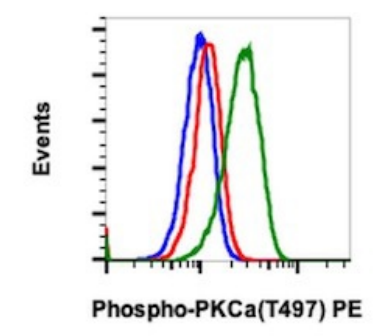
PRKCA (phospho T497) monoclonal antibody, clone F1 (PE)

Catalog # MAB23493 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of NIH/3T3 cells with PRKCA (phospho T497) monoclonal antibody, clone F1 (PE) (Cat # MAB23493). Unstained treated with imatinib as negative control (blue) or stained treated with imatinib (red) or treated with pervanadate (green).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human PRKCA.
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding T497 of human PRKCA.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Conjugation	PE
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (5 uL/10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.2% BSA, 0.09% sodium azide).
Storage Instruction	Store at 4°C.

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

Applications

- Flow Cytometry

  Flow cytometric analysis of NIH/3T3 cells with PRKCA (phospho T497) monoclonal antibody, clone F1 (PE) (Cat # MAB23493). Unstained treated with imatinib as negative control (blue) or stained treated with imatinib (red) or treated with pervanadate (green).

Gene Info — PRKCA

Entrez GeneID	5578
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 a ctivated by calcium and the second messenger diacylglycerol. PKC family members phosphorylat e a wide variety of protein targets and are known to be involved in diverse cellular signaling pathw ays. PKC family members also serve as major receptors for phorbol esters, a class of tumor pro moters. 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 k inase 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 sugge st 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

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- 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

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- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Liver Cirrhosis
- Mental Disorders
- Multiple Sclerosis
- Obesity
- Pancreatic Neoplasms
- Premature Birth
- Schizophrenia
- Tobacco Use Disorder
- Vaginosis

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