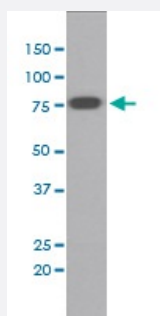


PRKCA monoclonal antibody, clone CHO-16

Catalog # MAB20597

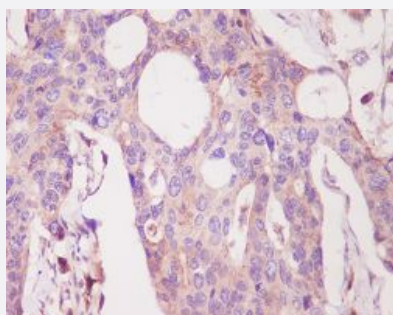
Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of HEK293 cell lysate using PRKCA monoclonal antibody, clone CHO-16.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded human colon using PRKCA monoclonal antibody, clone CHO-16.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human PRKCA.
Immunogen	A synthetic peptide corresponding to human PRKCA.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG

Recommend Usage	Flow Cytometry (1:50) Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:50) Western Blot (1:1000-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western Blot analysis of HEK293 cell lysate using PRKCA monoclonal antibody, clone CHO-16.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry analysis of paraffin-embedded human colon using PRKCA monoclonal antibody, clone CHO-16.

- Immunocytochemistry

- Immunofluorescence

- Immunoprecipitation

- Flow Cytometry

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](#)
- [Vaginitis](#)