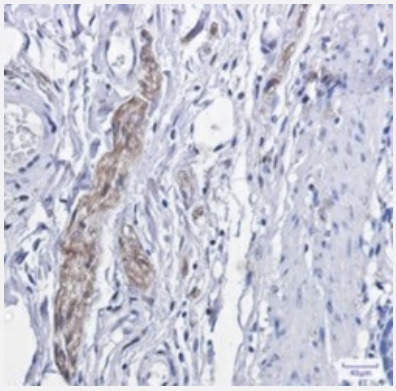
RecomAb™

# PRKCA recombinant monoclonal antibody, clone R09-7C7

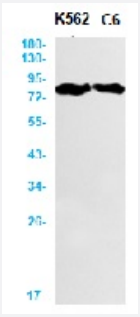
Catalog # RAB01670 Size 100 uL

## Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon cancer with Phospho-PKC alpha (Thr638) recombinant monoclonal antibody, clone R09-7C7 (Cat # RAB01670). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.




### Western Blot

Western blot analysis of Phospho-PKC alpha (Thr638) in K562, C6 lysates using human Phospho-PKC alpha (Thr638) recombinant monoclonal antibody, clone R09-7C7 (Cat # RAB01670).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against synthetic phosphopeptide corresponding to residues surrounding Thr638 of human PKC alpha. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g Thr638 of human PKC alpha |
| **Theoretical MW (kDa)** | Calculated MW: 77 kD |

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| | |
|---|---|
| **Reactivity** | Human |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (CHO) expression system |
| **Purification** | Affinity purification |
| **Isotype** | IgG |
| **Recommend Usage** | Immunohistochemistry (1:50-1:100)<br>Immunoprecipitation (1:20)<br>Western Blot (1:500-1:1,000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA). |
| **Storage Instruction** | Store at 4°C for short term. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

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

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon cancer with Phospho-PKC alpha (Thr638) recombinant monoclonal antibody, clone R09-7C7 (Cat # RAB01670). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

- Immunoprecipitation

- Western Blot

  Western blot analysis of Phospho-PKC alpha (Thr638) in K562, C6 lysates using human Phospho-PKC alpha (Thr638) recombinant monoclonal antibody, clone R09-7C7 (Cat # RAB01670).

## Gene Info — PRKCA

| | |
|---|---|
| **Entrez GeneID** | 5578 |
| **Protein Accession#** | P17252 |
| **Gene Name** | PRKCA |
| **Gene Alias** | AAG6, MGC129900, MGC129901, PKC-alpha, PKCA, PRKACA |

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| | |
|---|---|
| **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
- 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

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- 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

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