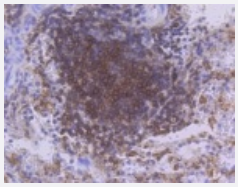
RecomAb™ Sm Size

# PRKCB recombinant monoclonal antibody

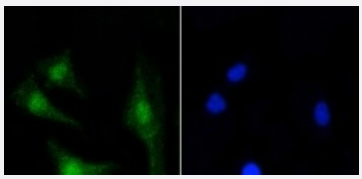
Catalog # RAB09432 Size 50 uL

## Applications



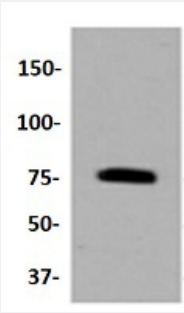
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human spleen tissue using PRKCB recombinant monoclonal antibody (Cat # RAB09432). Counter stained with hematoxylin.



### Immunocytochemistry

Immunocytochemical staining of SH-SY-5Y cells using PRKCB recombinant monoclonal antibody (Cat # RAB09432)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.




### Western Blot (Cell lysate)

Western blot analysis of Lane1:Raji whole cell lysate with PRKCB recombinant monoclonal antibody (Cat # RAB09432) at 1:1000 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against PRKCB. |

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| | |
|---|---|
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant PRKCB. |
| **Theoretical MW (kDa)** | 82 |
| **Reactivity** | Human, Mouse, Rat |
| **Specificity** | This antibody detects endogenous levels of PKC beta and does not cross-react with related proteins . |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Flow Cytometry (1:50-1:100)<br>Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Western Blot (1:1000-1:2000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.2 (50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **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 analysis of paraffin-embedded human spleen tissue using PRKCB recombinant monoclonal antibody (Cat # RAB09432). Counter stained with hematoxylin.

- Immunocytochemistry

  Immunocytochemical staining of SH-SY-5Y cells using PRKCB recombinant monoclonal antibody (Cat # RAB09432)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

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- Western Blot (Cell lysate)

  Western blot analysis of Lane1:Raji whole cell lysate with PRKCB recombinant monoclonal antibody (Cat # RAB09432) at 1:1000 dilution.

## Gene Info — PRKCB

| | |
|---|---|
| **Entrez GeneID** | 5579 |
| **Protein Accession#** | P05771 |
| **Gene Name** | PRKCB |
| **Gene Alias** | MGC41878, PKC-beta, PKCB, PRKCB1, PRKCB2 |
| **Gene Description** | protein kinase C, beta |
| **Omim ID** | 176970 |
| **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 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 promoter s. Each member of the PKC family has a specific expression profile and is believed to play a disti nct role in cells. The protein encoded by this gene is one of the PKC family members. This protein kinase has been reported to be involved in many different cellular functions, such as B cell activati on, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in m ice also suggest that this kinase may also regulate neuronal functions and correlate fear-induced conflict behavior after stress. Alternatively spliced transcript variants encoding distinct isoforms ha ve been reported. [provided by RefSeq |
| **Other Designations** | protein kinase C, beta 1 polypeptide |

## Pathway

- B cell receptor signaling pathway
- Calcium signaling pathway
- Chemokine 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
- Pathways in cancer
- Phosphatidylinositol signaling system
- Tight junction
- Vascular smooth muscle contraction
- VEGF signaling pathway
- Vibrio cholerae infection
- Wnt signaling pathway

## Disease

- Albuminuria
- Autistic Disorder
- Cardiovascular Diseases
- Diabetes Mellitus

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- Diabetic Angiopathies
- Diabetic Nephropathies
- Diabetic Retinopathy
- Disease Progression
- Edema
- Epilepsies
- Genetic Predisposition to Disease
- Kidney Failure
- Liver Cirrhosis
- Proteinuria
- Syndrome
- Tobacco Use Disorder

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