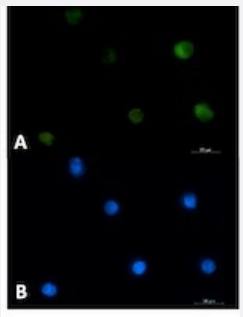
RecomAb™

PRKCB recombinant monoclonal antibody, clone R05-3F4

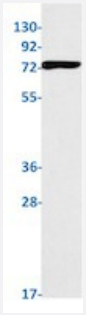
Catalog # RAB01995 Size 100 uL

Applications



Immunocytochemistry

Immunocytochemical staining of K562 with PRKCB recombinant monoclonal antibody, clone R05-3F4 (Cat # RAB01995). (A) PRKCB (green) and (B) DAPI (blue).



Western Blot

Western blot analysis of K562 lysates with PRKCB recombinant monoclonal antibody, clone R05-3F4 (Cat # RAB01995).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PRKCB.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human PRKCB.
Theoretical MW (kDa)	Calculated MW: 77 kD
Reactivity	Human, Rat
Form	Liquid

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Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry Immunofluorescence (1:50-1:200) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) 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 -20 °C. 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

- Immunofluorescence
- Immunocytochemistry

  Immunocytochemical staining of K562 with PRKCB recombinant monoclonal antibody, clone R05-3F4 (Cat # RAB01995). (A) PRKCB (green) and (B) DAPI (blue).

- Immunoprecipitation
- Western Blot

  Western blot analysis of K562 lysates with PRKCB recombinant monoclonal antibody, clone R05-3F4 (Cat # RAB01995).

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

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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
- 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

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

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- Tobacco Use Disorder

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