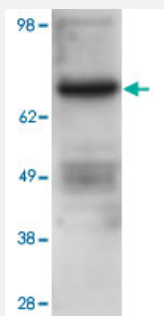


PRKCB polyclonal antibody

Catalog # PAB11251 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot using PRKCB polyclonal antibody (Cat # PAB11251) shows detection of PRKCB in ~25 ug of U251 whole cell lysate (glioma derived). The arrowhead corresponds to 76 kDa PRKCB.

The primary antibody at a 1:1,000 dilution.

Personal Communication, Howard Fine and Svetlana Kotliarova, CCR-NCI, Bethesda, MD.

Specification

Product Description Rabbit polyclonal antibody raised against synthetic peptide of PRKCB.

Immunogen A synthetic peptide corresponding to internal region of human PRKCB.

Host Rabbit

Reactivity Bovine, Human, Monkey, Mouse, Rabbit, Rat

Form Liquid

Quality Control Testing Antibody Reactive Against Synthetic Peptide.

Recommend Usage ELISA (1:75000-1:80000)
Western Blot (1:1000-1:2000)
The optimal working dilution should be determined by the end user.

Storage Buffer In 20 mM KH₂PO₄, 150 mM NaCl, pH 7.2 (0.01% sodium azide)

Storage Instruction Store at 4°C. For long term storage store at -20°C.
Aliquot to 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

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PRKCB

Entrez GeneID [5579](#)

Protein Accession# [NP_997700.1: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 activated 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 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 protein kinase has been reported to be involved in many different cellular functions, such as B cell activation, apoptosis induction, endothelial cell proliferation, and intestinal sugar absorption. Studies in mice 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 have been reported. [provided by RefSeq]

Other Designations protein kinase C, beta 1 polypeptide

Publication Reference

- [PKC{alpha} suppresses osteoblastic differentiation.](#)

Nakura A, Higuchi C, Yoshida K, Yoshikawa H.

Bone 2011 Mar; 48(3):476.

Application: WB-Ce, Mouse, MC3T3-E1 cells

- [The protein kinase Cbeta-selective inhibitor, Enzastaurin \(LY317615.HCl\), suppresses signaling through the AKT pathway, induces apoptosis, and suppresses growth of human colon cancer and glioblastoma xenografts.](#)

Graff JR, McNulty AM, Hanna KR, Konicek BW, Lynch RL, Bailey SN, Banks C, Capen A, Goode R, Lewis JE, Sams L, Huss KL, Campbell RM, Iversen PW, Neubauer BL, Brown TJ, Musib L, Geeganage S, Thornton D.

Cancer Research 2005 Aug; 65(16):7462.

- [Protein kinase C alpha/beta inhibitor Go6976 promotes formation of cell junctions and inhibits invasion of urinary bladder carcinoma cells.](#)

Koivunen J, Aaltonen V, Koskela S, Lehenkari P, Laato M, Peltonen J.

Cancer Research 2004 Aug; 64(16):5693.

- [Characterization of site-specific mutants altered at protein kinase C beta 1 isozyme autophosphorylation sites.](#)

Zhang J, Wang L, Petrin J, Bishop WR, Bond RW.

PNAS 1993 Jul; 90(13):6130.

Application: WB-Ce, WB-Tr, Monkey, COS cells

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](#)
- [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](#)
- [Tobacco Use Disorder](#)