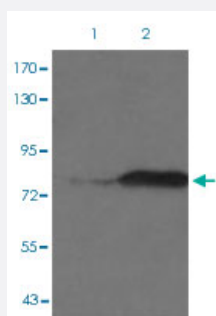


# PRKCB (phospho T641) polyclonal antibody

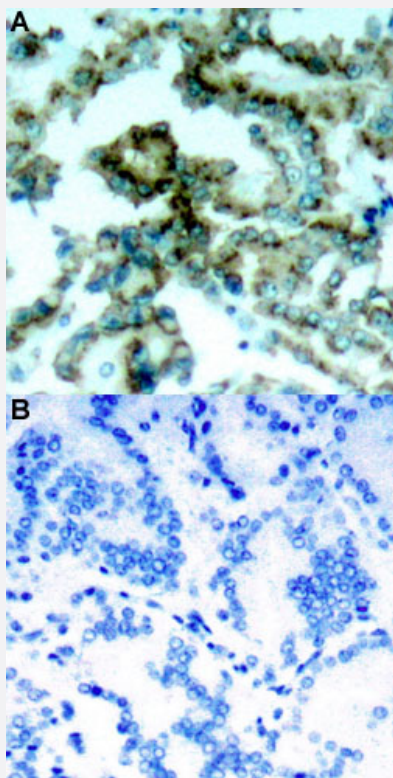
Catalog # PAB29615      Size 100 uL

## Applications



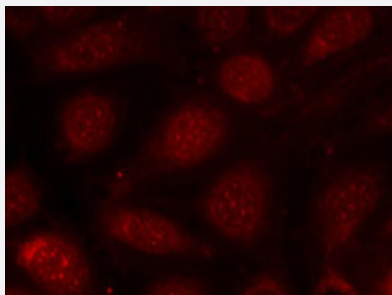
### Western Blot (Cell lysate)

Western blot analysis of Lane 1: JK cells, Lane 2: PMA treated JK cells with PRKCB (phospho T641) polyclonal antibody (Cat# PAB29615) at 1:500-1:1000 dilution.



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

Immunohistochemical staining of human lung cancer tissue by PRKCB (phospho T641) polyclonal antibody (Cat# PAB29615) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.



## Immunofluorescence

Immunofluorescent staining of methanol-fixed MCF7 cells using PRKCB (phospho T641) polyclonal antibody (Cat# PAB29615) at 1:100-1:200 dilution.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic phosphopeptide of human PRKCB.
<b>Immunogen</b>	A synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding T641 of human PRKCB.
<b>Host</b>	Rabbit
<b>Theoretical MW (kDa)</b>	82
<b>Reactivity</b>	Human, Mouse, Rabbit
<b>Specificity</b>	PRKCB (phospho T641) polyclonal antibody detects endogenous level of PRKCB only when phosphorylated at threonine 641.
<b>Form</b>	Liquid
<b>Purification</b>	Affinity Chromatography
<b>Recommend Usage</b>	Immunofluorescence (1:100-1:200) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (without $Mg^{2+}$ and $Ca^{2+}$ ), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	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 Lane 1: JK cells, Lane 2: PMA treated JK cells with PRKCB (phospho T641) polyclonal antibody (Cat# PAB29615) at 1:500-1:1000 dilution.

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## 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 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

## 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](#)

- [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](#)