# ANTIBODIES ONLINE

# Datasheet for ABIN6972535 anti-PKC beta antibody (C-Term)

Image



Overview

1

Quantity:	100 µL
Target:	PKC beta (PRKCB)
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

## Product Details

Immunogen:	This antibody was raised against a peptide within the C-terminal region of human PKC-B.
Isotype:	lgG
Characteristics:	PKC-B (Protein Kinase C, Beta) ia a calcium-activated, phospholipid- and diacylglycerol (DAG)-
	dependent serine/threonine-protein kinase involved in various cellular processes such as
	regulation of the B-cell receptor (BCR) signalosome, oxidative stress-induced apoptosis,
	androgen receptor-dependent transcription regulation, insulin signaling and endothelial cells
	proliferation. Plays a key role in B-cell activation by regulating BCR-induced NF-kappa-B
	activation. Mediates the activation of the canonical NF-kappa-B pathway (NFKB1) by direct
	phosphorylation of CARD11/CARMA1 at Ser-559, Ser-644 and Ser-652. Plays a direct role in the
	negative feedback regulation of the BCR signaling, by down-modulating BTK function via direct
	phosphorylation of BTK at Ser-180, which results in the alteration of BTK plasma membrane
	localization and in turn inhibition of BTK activity. Involved in apoptosis following oxidative
	damage. Acts as a coactivator of androgen receptor (ANDR)-dependent transcription, by being

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H3 (H3T6ph), a specific tag for epigenetic transcriptional activation that prevents
demethylation of histone H3 Lys-4 (H3K4me) by LSD1/KDM1A. Under high glucose in
pancreatic beta-cells, is probably involved in the inhibition of the insulin gene transcription, via
regulation of MYC expression. In endothelial cells, activation of PRKCB induces increased
phosphorylation of RB1, increased VEGFA-induced cell proliferation, and inhibits PI3K/AKTdependent nitric oxide synthase (NOS3/eNOS) regulation by insulin, which causes endothelial
dysfunction. Phosphorylates ATF2 which promotes cooperation between ATF2 and JUN,
activating transcription. PKC-B antibody (pAb) was raised in a Rabbit host. It has been validated
for use in Western blot, it has been shown to react with Human samples.

Purification:

Affinity Purified

#### **Target Details**

Target:	PKC beta (PRKCB)	
Taiyet.		
Alternative Name:	PKC-B (PRKCB Products)	
Molecular Weight:	85 kDa	
NCBI Accession:	NP_997700	
Pathways:	WNT Signaling, TCR Signaling, Thyroid Hormone Synthesis, Nuclear Hormone Receptor Binding , Chromatin Binding, Myometrial Relaxation and Contraction, VEGF Signaling, Unfolded Protein Response, BCR Signaling	

#### **Application Details**

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Buffer:	Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

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### Handling

Storage Comment:

Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at - 20°C for up to 2 years. Keep all reagents on ice when not in storage.

#### Images

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142
96
<u> </u>
48
33
28

Western	Blotting
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**Image 1.** PKC-B antibody (pAb) tested by Western blot. PKC-B detection by Western blot. The analysis was performed using 20 µg of K562 nuclear cell extract and PKC-B antibody at a 1:500 dilution.