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anti-PKC beta antibody (AA 601-673)





Go to Product page

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Quantity:	100 μL
Target:	PKC beta (PRKCB)
Binding Specificity:	AA 601-673
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKC beta antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffinembedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	en: KLH conjugated synthetic peptide derived from human PRKCB	
Isotype:	IgG	
Specificity:	This antibody will recognize isoform Beta-II & I of Protein kinase C beta	
Cross-Reactivity:	Human, Mouse, Rat	
Predicted Reactivity:	Cow,Pig,Rabbit	
Purification:	Purified by Protein A.	

Target Details

Target:	PKC beta (PRKCB)
Alternative Name:	PKC beta (PRKCB Products)
Background:	Synonyms: PKCB, PRKCB1, PRKCB2, PKC-beta, Protein kinase C beta type, PKC-B, PRKCB
	Background: 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'. Phosphorylation induces
	CARD11/CARMA1 association with lipid rafts and recruitment of the BCL10-MALT1 complex as
	well as MAP3K7/TAK1, which then activates IKK complex, resulting in nuclear translocation and
	activation of NFKB1. 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: in case of oxidative conditions,
	specifically phosphorylates 'Ser-36' of isoform p66Shc of SHC1, leading to mitochondrial
	accumulation of p66Shc, where p66Shc acts as a reactive oxygen species producer. Acts as a
	coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR
	target genes and specifically mediating phosphorylation of 'Thr-6' of histone H3 (H3T6ph), a
	specific tag for epigenetic transcriptional activation that prevents demethylation of histone H3
	'Lys-4' (H3K4me) by LSD1/KDM1A. In insulin signaling, may function downstream of IRS1 in
	muscle cells and mediate insulin-dependent DNA synthesis through the RAF1-MAPK/ERK
	signaling cascade. May participate in the regulation of glucose transport in adipocytes by
	negatively modulating the insulin-stimulated translocation of the glucose transporter
	SLC2A4/GLUT4.
Gene ID:	5579
JniProt:	P05771
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

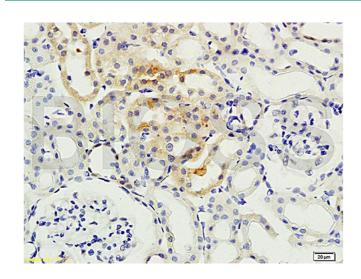
Application Details

ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200	
FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200	
FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500	
FCM 1:20-100 IHC-P 1:200-400	
FCM 1:20-100	
ELISA 1:500-1000	
Application Notes: WB 1:300-5000	

Handling

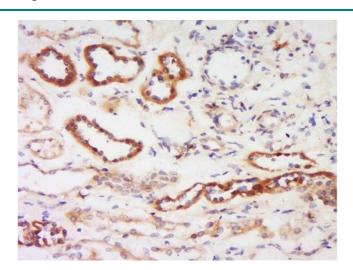
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded: rat kidney tissue labeled with Anti-PKCB Polyclonal Antibody, Unconjugated (ABIN727010) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin embedded human kidney labeled with Anti-Protein kinase C beta, Isoform II Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining.