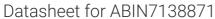
antibodies - online.com







anti-PKC beta antibody (pThr641)





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Overview		
Quantity:	100 μL	
Target:	PKC beta (PRKCB)	
Binding Specificity:	pThr641	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This PKC beta antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)	
Product Details		
Immunogen:	Peptide sequence around phosphorylation site of threonine 641 (E-L-T(p)-P-T) derived from	
	Human PKCb	
Isotype:	IgG	
Cross-Reactivity:	Human, Mouse, Rat	
Purification:	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates.	
	Antibodies were purified by affinity-chromatography using epitope-specific peptide.	
Target Details		
Target:	PKC beta (PRKCB)	
Alternative Name:	PRKCB (PRKCB Products)	

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Background: Calcium-activated and phospholipid-dependent serine/threonine-protein kinase involved in various processes such as regulation of the B-cell receptor (BCR) signalosome, apoptosis and transcription regulation. Plays a key role in B-cell activation and function by regulating BCR-induced NF-kappa-B activation and B-cell suvival. Required for recruitment and activation of the IKK kinase to lipid rafts and mediates phosphorylation of CARD11/CARMA1 at 'Ser-559', 'Ser-644' and 'Ser-652', leading to activate the NF-kappa-B signaling. 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. Also involved in triglyceride homeostasis. Serves as the receptor for phorbol esters, a class of tumor promoters. Zhang Y, et al. (2006) Mol Cell Biol, 26: 6748-6761 Castoria G, et al. (2004) Mol Cell Biol, 24: 7643-7653 Marcil J, et al. (1999) Biochem J, 337:185-192 Bornancin F, et al. (1996) Curr Biol, 6:1114-1123.

Aliases: KPCB_HUMAN antibody, PKC Beta antibody, PKC-B antibody, PKC-beta antibody, PKCB antibody, Prkcb antibody, PRKCB II antibody, PRKCB2 antibody, Protein kinase C beta antibody, Protein kinase C beta type antibody

UniProt:

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

Application Notes:	WB:1:500-1:1000, IHC:1:50-1:100, IF:1:100-1:200,
Restrictions:	For Research Use only

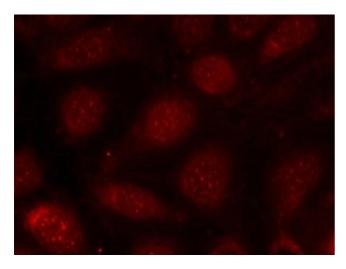
Handling

- Idilaling	
Format:	Liquid
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide

Handling

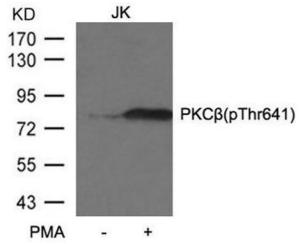
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Storage:	-20 °C,-80 °C	
Storage Comment:	nment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.	

Images



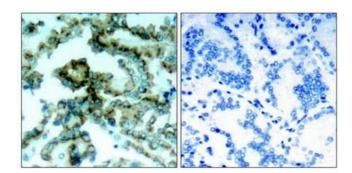
Immunofluorescence

Image 1. Immunofluorescence staining of methanol-fixed MCF7 cells using PKCb(phospho-Thr641) antibody.



Western Blotting

Image 2. Western blot analysis of extracts from JK cells untreated or treated with PMA using PKC β (phospho-Thr641) antibody.



Immunohistochemistry

Image 3. Immunohistochemical analysis of paraffinembedded human lung carcinoma tissue, using PKCb(phospho-Thr641) antibody.