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Datasheet for ABIN6264246 anti-PKC theta antibody (C-Term)

2 Images



Overview

Quantity:	100 µL
Target:	PKC theta (PRKCQ)
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKC theta antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PKC theta, corresponding to a region within C- terminal amino acids.
lsotype:	lgG
Specificity:	PKC theta Antibody detects endogenous levels of total PKC theta.
Predicted Reactivity:	Pig,Zebrafish,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:

PKC theta (PRKCQ)

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Iternative Name:	PRKCQ (PRKCQ Products)
Background:	Description: Calcium-independent, phospholipid- and diacylglycerol (DAG)-dependent
	serine/threonine-protein kinase that mediates non-redundant functions in T-cell receptor (TC
	signaling, including T-cells activation, proliferation, differentiation and survival, by mediating
	activation of multiple transcription factors such as NF-kappa-B, JUN, NFATC1 and NFATC2. I
	TCR-CD3/CD28-co-stimulated T-cells, is required for the activation of NF-kappa-B and JUN,
	which in turn are essential for IL2 production, and participates in the calcium-dependent
	NFATC1 and NFATC2 transactivation. Mediates the activation of the canonical NF-kappa-B
	pathway (NFKB1) by direct phosphorylation of CARD11 on several serine residues, inducing
	CARD11 association with lipid rafts and recruitment of the BCL10-MALT1 complex, which the
	activates IKK complex, resulting in nuclear translocation and activation of NFKB1. May also
	play an indirect role in activation of the non-canonical NF-kappa-B (NFKB2) pathway. In the
	signaling pathway leading to JUN activation, acts by phosphorylating the mediator
	STK39/SPAK and may not act through MAP kinases signaling. Plays a critical role in
	TCR/CD28-induced NFATC1 and NFATC2 transactivation by participating in the regulation of
	reduced inositol 1,4,5-trisphosphate generation and intracellular calcium mobilization. After
	costimulation of T-cells through CD28 can phosphorylate CBLB and is required for the
	ubiquitination and subsequent degradation of CBLB, which is a prerequisite for the activation
	TCR. During T-cells differentiation, plays an important role in the development of T-helper 2
	(Th2) cells following immune and inflammatory responses, and, in the development of
	inflammatory autoimmune diseases, is necessary for the activation of IL17-producing Th17
	cells. May play a minor role in Th1 response. Upon TCR stimulation, mediates T-cell protectiv
	survival signal by phosphorylating BAD, thus protecting T-cells from BAD-induced apoptosis,
	and by up-regulating BCL-X(L)/BCL2L1 levels through NF-kappa-B and JUN pathways. In
	platelets, regulates signal transduction downstream of the ITGA2B, CD36/GP4, F2R/PAR1 ar
	F2RL3/PAR4 receptors, playing a positive role in 'outside-in' signaling and granule secretion
	signal transduction. May relay signals from the activated ITGA2B receptor by regulating the
	uncoupling of WASP and WIPF1, thereby permitting the regulation of actin filament nucleatio
	and branching activity of the Arp2/3 complex. May mediate inhibitory effects of free fatty aci
	on insulin signaling by phosphorylating IRS1, which in turn blocks IRS1 tyrosine
	phosphorylation and downstream activation of the PI3K/AKT pathway. Phosphorylates MSN
	(moesin) in the presence of phosphatidylglycerol or phosphatidylinositol. Phosphorylates
	PDPK1 at 'Ser-504' and 'Ser-532' and negatively regulates its ability to phosphorylate
	PKB/AKT1.

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Target Details

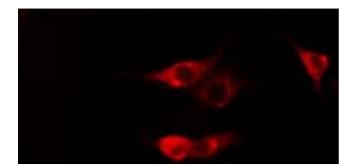
Molecular Weight:	80kDa
Gene ID:	5588
UniProt:	Q04759
Pathways:	TCR Signaling, Fc-epsilon Receptor Signaling Pathway, Myometrial Relaxation and Contraction,
	Regulation of G-Protein Coupled Receptor Protein Signaling, Thromboxane A2 Receptor
	Signaling

Application Details

Application Notes:	WB 1:500-1:2000, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months



Immunofluorescence (fixed cells)

Image 1. ABIN6269319 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibody.

kDa 1 2 250-150-100-75-50-37-25-20-15-

Western Blotting

Image 2. Western blot analysis of PKC theta expression in PMA treated Jurkat whole cell lysates,The lane on the left is treated with the antigen-specific peptide.

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