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Datasheet for ABIN6255881 anti-PKC delta antibody (pTyr313)

4 Images



Overview

Quantity:	100 µL
Target:	PKC delta (PKCd)
Binding Specificity:	pTyr313
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKC delta antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PKC delta around the phosphorylation site of Tyr313.
lsotype:	lgG
Specificity:	Phospho-PKC delta (Tyr313) Antibody detects endogenous levels of PKC delta only when phosphorylated at Tyrosine 313.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

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arget:	PKC delta (PKCd)
Alternative Name:	PRKCD (PKCd Products)
Background:	Description: Calcium-independent, phospholipid- and diacylglycerol (DAG)-dependent
	serine/threonine-protein kinase that plays contrasting roles in cell death and cell survival by
	functioning as a pro-apoptotic protein during DNA damage-induced apoptosis, but acting as a
	anti-apoptotic protein during cytokine receptor-initiated cell death, is involved in tumor
	suppression as well as survival of several cancers, is required for oxygen radical production by
	NADPH oxidase and acts as positive or negative regulator in platelet functional responses.
	Negatively regulates B cell proliferation and also has an important function in self-antigen
	induced B cell tolerance induction. Upon DNA damage, activates the promoter of the death-
	promoting transcription factor BCLAF1/Btf to trigger BCLAF1-mediated p53/TP53 gene
	transcription and apoptosis. In response to oxidative stress, interact with and activate
	CHUK/IKKA in the nucleus, causing the phosphorylation of p53/TP53. In the case of ER stress
	or DNA damage-induced apoptosis, can form a complex with the tyrosine-protein kinase ABL1
	which trigger apoptosis independently of p53/TP53. In cytosol can trigger apoptosis by
	activating MAPK11 or MAPK14, inhibiting AKT1 and decreasing the level of X-linked inhibitor c
	apoptosis protein (XIAP), whereas in nucleus induces apoptosis via the activation of MAPK8 o
	MAPK9. Upon ionizing radiation treatment, is required for the activation of the apoptosis
	regulators BAX and BAK, which trigger the mitochondrial cell death pathway. Can
	phosphorylate MCL1 and target it for degradation which is sufficient to trigger for BAX
	activation and apoptosis. Is required for the control of cell cycle progression both at G1/S and
	G2/M phases. Mediates phorbol 12-myristate 13-acetate (PMA)-induced inhibition of cell cycle
	progression at G1/S phase by up-regulating the CDK inhibitor CDKN1A/p21 and inhibiting the
	cyclin CCNA2 promoter activity. In response to UV irradiation can phosphorylate CDK1, which
	important for the G2/M DNA damage checkpoint activation. Can protect glioma cells from the
	apoptosis induced by TNFSF10/TRAIL, probably by inducing increased phosphorylation and
	subsequent activation of AKT1. Is highly expressed in a number of cancer cells and promotes
	cell survival and resistance against chemotherapeutic drugs by inducing cyclin D1 (CCND1) ar
	hyperphosphorylation of RB1, and via several pro-survival pathways, including NF-kappa-B,
	AKT1 and MAPK1/3 (ERK1/2). Can also act as tumor suppressor upon mitogenic stimulation
	with PMA or TPA. In N-formyl-methionyl-leucyl-phenylalanine (fMLP)-treated cells, is required
	for NCF1 (p47-phox) phosphorylation and activation of NADPH oxidase activity, and regulates
	TNF-elicited superoxide anion production in neutrophils, by direct phosphorylation and
	activation of NCF1 or indirectly through MAPK1/3 (ERK1/2) signaling pathways. May also play
	a role in the regulation of NADPH oxidase activity in eosinophil after stimulation with IL5,

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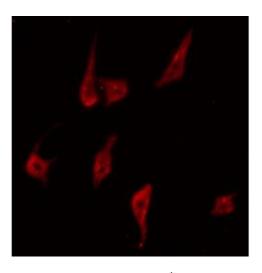
	leukotriene B4 or PMA. In collagen-induced platelet aggregation, acts a negative regulator of
	filopodia formation and actin polymerization by interacting with and negatively regulating VASP
	phosphorylation. Downstream of PAR1, PAR4 and CD36/GP4 receptors, regulates differentially
	platelet dense granule secretion, acts as a positive regulator in PAR-mediated granule secretion,
	whereas it negatively regulates CD36/GP4-mediated granule release. Phosphorylates MUC1 in
	the C-terminal and regulates the interaction between MUC1 and beta-catenin. The catalytic
	subunit phosphorylates 14-3-3 proteins (YWHAB, YWHAZ and YWHAH) in a sphingosine-
	dependent fashion (By similarity). Phosphorylates ELAVL1 in response to angiotensin-2
	treatment (PubMed:18285462).
	Gene: PRKCD
Molecular Weight:	78kDa
Gene ID:	5580
UniProt:	Q05655
Pathways:	Interferon-gamma Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid
	Hormone Synthesis, Regulation of Actin Filament Polymerization, Carbohydrate Homeostasis,
	Myometrial Relaxation and Contraction, M Phase, G-protein mediated Events, Dicarboxylic Acid
	Transport, Positive Regulation of Response to DNA Damage Stimulus, Interaction of EGFR with
	phospholipase C-gamma, Thromboxane A2 Receptor Signaling, Lipid Metabolism
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, 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.

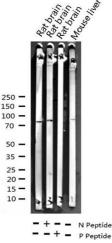
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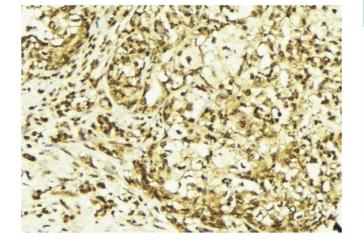
Handling

Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images







Immunofluorescence (fixed cells)

Image 1. ABIN6267618 staining NIH-3T3 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) Ab, diluted at 1/600, was used as the secondary antibody.

Western Blotting

Image 2. Western blot analysis of Phospho-PKC delta (Tyr313) expression in various lysates

Immunohistochemistry

Image 3. ABIN6267618 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

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