PKCδ (D10E2) Rabbit mAb ^{Cell} Signaling T E C H N O L O G Y* Orders: 877-616-CELL (2355) orders@cellsignal.com



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q05655	Entrez-Gene Id: 5580
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than
Specificity/Sen	ensitivity PKCδ (D10E2) Rabbit mAb recognizes endogenous levels of total PKCδ protein. This antibody does not cross-react with other PKC isoforms.				ntibody does not	
Species predict based on 100% homology	ed to react sequence	Xenopus, Bovine, Dog,	, Horse			
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg216 of human PKCδ protein.				
Background		cellular responses, inc PKC isoforms belong t calcium-dependent via (DAG), and phorbol est PKCs are calcium-inde Members of these thre substrate-binding sites activators. Control of F Phosphorylation occur autophosphorylation, lack hydrophobic regic than the serine or thre relative is responsible is regulated by DAG ar domain and by its unic lack the C1 domain an PRKs, and small Rho-fa activity (7). PKCô is classified amo superfamily, which inc appears to contribute regulation of this enzy PKCs, PKCô is potently by phosphorylation wi site (Ser645) and hydro is uniquely regulated b	luding secretion, ge o three groups bas a their C2 domains ters (TPA, PMA) three pendent, but only r ee PKC groups cont is in the catalytic do PKC activity is regul- res <i>in vivo</i> at Thr500 and at the carboxy- on phosphorylation conine residues fou for PKC activation. Ind TPA through its C que substrate record d do not respond to amily GTPases bind ng the calcium-inde ludes PKCS, ε , η , ar to tumorigenesis, F me is associated w for the conserved ophobic, carboxy-te oy phosphorylation and c-Abl (9,12-14).	e of the earliest events ir ene expression, prolifera ed on calcium depender and are activated by pho bugh their cysteine-rich hovel PKCs are activated ain a pseudo-substrate main to prevent activati ated through three disti in the activation loop, a terminal hydrophobic s , which correlates with t nd in more typical PKC i A recent addition to the C1 domain. PKD is distin gnition and Golgi localiza to DAG or phorbol esters to the homology regior ependent, diacylglycerol ad θ. Unlike other PKC fa PKCδ appears to function ith tumor progression (8 glycerol and phorbol es activation loop (Thr505) erminal residue (Ser664) at tyrosine residues by For more information re phosite.org).	ation, and muscle of hey and activators. (psphatidylserine (PS C1 domains. Both r by PS, DAG, and ph or autoinhibitory do on in the absence o nct phosphorylation t Thr641 through ite Ser660 (2). Atypi he presence of glut soforms. The enzyn PKC superfamily is guished by the prese ation (6). PKC-relate . Phosphatidylinosition 1 (HR1) to regulate -activated "novel" n mily members, who n as a tumor supprese 3). Like other conver er and its kinase act o as well as the auto (9-11). Interestingly receptor tyrosine ki	ontraction (1,2). Classical PKCs are Glassical PKCs are ovel and atypical orbol esters (3-5). omain that binds to of cofactors or n events. cal PKC isoforms itamic acid rather ne PDK1 or a close PKCμ (PKD), which sence of a PH d kinases (PRK) tol lipids activate e PRK kinase nembers of the PKC ose activation esor as down- ntional and novel tivity is modulated phosphorylation y, PKCδ funtionality nases, members of
Background Re	eferences	1. Nishizuka, Y. (1984) 2. Keranen, L.M. et al. (3. Mellor, H. and Parke 4. Ron, D. and Kazanie 5. Moscat, J. and Diaz-f 6. Baron, C.L. and Mall 7. Flynn, P. et al. (2000) 8. Lu, Z. et al. (1997) <i>M</i>	(1995) <i>Curr Biol</i> 5, 1 rr, P.J. (1998) <i>Bioche</i> . tz, M.G. (1999) <i>FASI</i> Meco, M.T. (2000) <i>E</i> hotra, V. (2002) <i>Scie</i>) <i>J Biol Chem</i> 275, 1	m J 332 (Pt 2), 281-92. EB J 13, 1658-76. MBO Rep 1, 399-403. once 295, 325-8. 1064-70.		

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Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.		
Applications Key	W: Western Blotting IP: Immunoprecipitation		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey		
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