Phospho-PKCdelta (Tyr311) Antibody





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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit	UniProt ID: #Q05655	Entrez-Gene Id: 5580	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM soc 20°C. Do not aliquot th), 150 mM NaCl, 100 μg/	ml BSA and 50% gly	/cerol. Store at –	
Specificity/Sensitivity		Phospho-PKCdelta (Tyr311) Antibody detects endogenous levels of PKCdelta only when phosphorylated at tyrosine 311. This antibody does not cross-react with other phosphorylated PKC isoforms.					
Source / Purifica	ation	corresponding to resid	lues surrounding T	munizing animals with a yr313 of human PKCdelt y protein A and peptide	a (which is equivale	nt to Tyr311 in	
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 site: activators. Control of F Phosphorylation occur autophosphorylation, lack hydrophobic regio 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). Phosphorylation of tyr properties. Phosphory domain, and the hinge deciphered based on p	luding secretion, ge o three groups bas a their C2 domains ters (TPA, PMA) three pendent, but only r ee PKC groups cont s in the catalytic do PKC activity is regul- rs <i>in vivo</i> at Thr500 and at the carboxy- on phosphorylation for PKC activation. and TPA through its (que substrate recog d do not respond to amily GTPases bind rosine residues in P rlated tyrosine resic e of PKC& (8). While obosphorylated tyro	e of the earliest events in ene expression, prolifera- ed on calcium depender and are activated by pho- bugh their cysteine-rich novel PKCs are activated ain a pseudo-substrate e- main to prevent activati- ated through three disti- in the activation loop, at- terminal hydrophobic s , which correlates with t nd in more typical PKC is A recent addition to the C1 domain. PKD is distin phition and Golgi localiza- to DAG or phorbol esters to the homology region KCδ are suggested to ph- lues have been identifie- no clear designation of osine patterns, these van- trease kinase activity or	ation, and muscle co hey and activators. (psphatidylserine (PS C1 domains. Both n by PS, DAG, and ph or autoinhibitory do on in the absence o net phosphorylatior t Thr641 through ite Ser660 (2). Atypi- he presence of glut soforms. The enzym PKC superfamily is guished by the press ation (6). PKC-relate . Phosphatidylinosit o 1 (HR1) to regulate ay a role in determi d in the catalytic do regulatory specificit rious phosphorylati	ontraction (1,2). Classical PKCs are b), diacylglycerol ovel and atypical orbol esters (3-5). omain that binds to f cofactors or n events. cal PKC isoforms amic acid rather he PDK1 or a close PKCμ (PKD), which bence of a PH d kinases (PRK) col lipids activate e PRK kinase ning its functional main, regulatory ty had been ons have been	
Background Ref	erences	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- 6. Baron, C.L. and Mall 7. Flynn, P. et al. (2000) 8. Steinberg, S.F. (2004) 9. Blake, R.A. et al. (1993) 10. Konishi, H. et al. (2003)	(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 I) <i>Biochem. J.</i> 384, 4 99) <i>Cell Growth Difi</i>	m J 332 (Pt 2), 281-92. EB J 13, 1658-76. MBO Rep 1, 399-403. Ince 295, 325-8. 1064-70. 49-459.	2.		

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	W: Western Blotting	
Cross-Reactivity Key	H: Human M: Mouse R: Rat	
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