PKCε (22B10) Rabbit mAb	Се	II Signaling сныогоду [®]		
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#	3 Trask Lane Danvers Massa	chusetts 01923 USA		
For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit IgG	UniProt ID: #Q02156	Entrez-Gene Id 5581
Product Usage Information	1	Application Western Blotting			Dilution 1:1000	
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.				
Specificity/Sen	sitivity	PKCε (22B10) Rabbit mAb detects endogenous levels of total PKCε protein. The antibody does not cro react with other PKC isoforms.			oody does not cross-	
Species predict based on 100% homology	ted to react sequence	Chicken				
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg145 of human PKCɛ protein.		orresponding to		
Background		cellular responses, in PKC isoforms belong calcium-dependent v (DAG), and phorbol e PKCs are calcium-ind Members of these th substrate-binding sit activators. Control of Phosphorylation occu autophosphorylation lack hydrophobic reg than the serine or th relative is responsible is regulated by DAG a domain and by its un lack the C1 domain a	cluding secretion, g to three groups bas ia their C2 domains sters (TPA, PMA) thr ependent, but only ree PKC groups con es in the catalytic do PKC activity is regu urs <i>in vivo</i> at Thr500 , and at the carboxy ion phosphorylation ef or PKC activation. and TPA through its ique substrate reco nd do not respond to	e of the earliest events in ene expression, prolifera- ied on calcium depender and are activated by pho- ough their cysteine-rich novel PKCs are activated tain a pseudo-substrate omain to prevent activati ated through three disti in the activation loop, a -terminal hydrophobic s h, which correlates with t und in more typical PKC i A recent addition to the C1 domain. PKD is distin gnition and Golgi localizo o DAG or phorbol esters I to the homology regior	ation, and muscle c ncy and activators. osphatidylserine (P C1 domains. Both r by PS, DAG, and pl or autoinhibitory d on in the absence c nct phosphorylatio t Thr641 through tite Ser660 (2). Atyp the presence of glu isoforms. The enzyr PKC superfamily is guished by the pre ation (6). PKC-relate S. Phosphatidylinosi	ontraction (1,2). Classical PKCs are S), diacylglycerol novel and atypical norbol esters (3-5). omain that binds to of cofactors or n events. ical PKC isoforms tamic acid rather me PDK1 or a close PKCµ (PKD), which sence of a PH ed kinases (PRK) itol lipids activate
Background Re	eferences	1. Nishizuka, Y. (1984 2. Keranen, L.M. et al 3. Mellor, H. and Park 4. Ron, D. and Kazani 5. Moscat, J. and Diaz 6. Baron, C.L. and Ma 7. Flynn, P. et al. (200	. (1995) <i>Curr Biol</i> 5, er, P.J. (1998) <i>Bioche</i> etz, M.G. (1999) <i>FAS</i> -Meco, M.T. (2000) <i>I</i> Ilhotra, V. (2002) <i>Sci</i>	m J 332 (Pt 2), 281-92. EB J 13, 1658-76. MBO Rep 1, 399-403. ence 295, 325-8.		
Species Reactiv	vity	Species reactivity is d	letermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	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 K	ey	W: Western Blotting				
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey				

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