e at -20C	PKCε (22B10) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
33		Support:	877-678-TECH (8324)	
#2683		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit IgG	UniProt ID: #Q02156	Entrez-Gene Id: 5581	
Product Usage Information		plication estern Blotting			Dilution 1:1000		
Storage				7.5), 150 mM NaCl, 100 o not aliquot the antibody		erol and less than	
Specificity / Sensitiv		Cɛ (22B10) Rabbit n ct with other PKC is		genous levels of total P	KCε protein. The antik	oody does not cross-	
Species predicted to react based on 1009 sequence homology	6	cken					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg145 of human PKCɛ protein.					
Background	cellu isofo (DA PKC Mer sub: activ Pho and pho: resid activ thro reco to D	ular responses, inclu- orms belong to thre- ium-dependent via G), and phorbol est Cs are calcium-inde nbers of these three strate-binding sites vators. Control of Pl sphorylation occurs at the carboxy-tern sphorylation, which dues found in more vation. A recent add ugh its C1 domain. ognition and Golgi Id AG or phorbol este	uding secretion, g e groups based o their C2 domains ers (TPA, PMA) t pendent, but only e PKC groups cor in the catalytic do KC activity is regu s <i>in vivo</i> at Thr500 ninal hydrophobic correlates with th typical PKC isofo lition to the PKC s PKD is distinguis pocalization (6). Pk rs. Phosphatidylin	ne of the earliest events gene expression, prolifer in calcium dependency a and are activated by ph hrough their cysteine-rice novel PKCs are activate that a pseudo-substrate omain to prevent activati ulated through three dist 0 in the activation loop, a site Ser660 (2). Atypica he presence of glutamic orms. The enzyme PDK2 superfamily is PKCµ (PK hed by the presence of KC-related kinases (PRK hositol lipids activate PR PRK kinase activity (7).	ation, and muscle cor and activators. Classic hosphatidylserine (PS) ch C1 domains. Both r ed by PS, DAG, and p e or autoinhibitory don on in the absence of o inct phosphorylation e at Thr641 through auto at PKC isoforms lack r acid rather than the s L or a close relative is (D), which is regulated a PH domain and by i (C) lack the C1 domain Ks, and small Rho-fai	ntraction (1,2). PKC cal PKCs are), diacylglycerol novel and atypical phorbol esters (3-5). nain that binds to cofactors or events. phosphorylation, nydrophobic region erine or threonine responsible for PKC d by DAG and TPA ts unique substrate and do not respond	
Background Refere	2. K 3. M 4. R 5. M 6. B	on, D. and Kazanie	(1995) <i>Curr Biol</i> 5 r, P.J. (1998) <i>Bioc</i> tz, M.G. (1999) F Meco, M.T. (2000 notra, V. (2002) S	5, 1394-403. chem J 332 (Pt 2), 281-4 ASEB J 13, 1658-76. I) EMBO Rep 1, 399-403 cience 295, 325-8.			
Species Reactivity	Spec	ies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).	
Western Blot Buffer				membrane with diluted th gentle shaking, overn		% w/v nonfat dry	
Applications Key							

Applications Key

1/1/24, 8:27 AM	PKCε (22B10) Rabbit mAb (#2683) Datasheet Without Images Cell Signaling Technology WB: Western Blotting			
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected			
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