## Phospho-PKCα/β II (Thr638/641) Antibody S266



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Applications: W	<b>Reactivity:</b> H M Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 80, 82	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P17252, #P05771- 2	<b>Entrez-Gene Id:</b> 5578, 5579
Product Usage Information	1	<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				erol. Store at –
Specificity/Sen	sitivity	Phospho-PKC alpha/beta II (Thr638/641) Antibody detects PKC alpha only when phosphorylated at threonine 638 and PKC beta II only when phosphorylated at threonine 641. This antibody also reacts with gamma.				
Species predict based on 100% homology		Rat, Hamster				
Source / Purific	cation		lues surrounding T		n a synthetic phosphop Ilpha. Antibodies are pu	
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 regio than the serine or thre relative is responsible is regulated by DAG ar domain and by its unic lack the C1 domain an	luding secretion, ge o three groups bas a their C2 domains a ters (TPA, PMA) thro pendent, but only r e PKC groups cont s in the catalytic do PKC activity is regula control of the catalytic do PKC activity is regula and at the carboxy- on phosphorylation conine residues fou for PKC activation of TPA through its C que substrate recog d do not respond to	ene expression, prolife ed on calcium depend and are activated by p bugh their cysteine-ric novel PKCs are activate ain a pseudo-substrat main to prevent activa ated through three dis in the activation loop, terminal hydrophobic , which correlates with nd in more typical PKC A recent addition to th C1 domain. PKD is dist gnition and Golgi localio o DAG or phorbol este	in a cascade that contr eration, and muscle con ency and activators. Cla hosphatidylserine (PS), h C1 domains. Both nov- ed by PS, DAG, and phore e or autoinhibitory dom tion in the absence of of stinct phosphorylation e at Thr641 through site Ser660 (2). Atypica the presence of glutar cisoforms. The enzyme is PKC superfamily is Pl inguished by the presen- ization (6). PKC-related rs. Phosphatidylinosito on 1 (HR1) to regulate F	traction (1,2). assical PKCs are diacylglycerol vel and atypical rbol esters (3-5). nain that binds to cofactors or events. al PKC isoforms mic acid rather e PDK1 or a close KCμ (PKD), which nce of a PH kinases (PRK) I lipids activate
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-1 6. Baron, C.L. and Mall 7. Flynn, P. et al. (2000)	(1995) <i>Curr Biol</i> 5, 1 r, P.J. (1998) <i>Biocher</i> tz, M.G. (1999) <i>FASE</i> Meco, M.T. (2000) <i>E</i> notra, V. (2002) <i>Scie</i>	m J 332 (Pt 2), 281-92. EB J 13, 1658-76. MBO Rep 1, 399-403. nce 295, 325-8.		
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one appro	ved application (e.g., w	estern blot).
Western Blot B	Buffer	IMPORTANT: For weste TBS, 0.1% Tween® 20			d primary antibody in 5	5% w/v BSA, 1X
Applications K	ey	W: Western Blotting				

Cross-Reactivity Key	H: Human M: Mouse Mk: Monkey	
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