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PKD3/PKCv (D57E6) Rabbit mAb

Applications: WB, IP	Reactivity: H M R Mk B	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #O94806	Entrez-Gene Id: 23683	
Product Usage Information	App Wes Imm	lication stern Blotting nunoprecipitation			Dilution 1:1000 1:50		
Storage	Supp 0.029	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 / Sensit	t ivity PKD:	PKD3/PKCv (D57E6) Rabbit mAb recognizes endogenous levels of total PKD3/PKCv protein.					
Source / Purification	on Mono resid	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala880 of human PKD3/PKC ν protein.					
Background	PKC that p amin (the r has t diacy active agon the p this c that r with 1 PKC ences 1. Ha 2. Ma 3. Re	 PKCv, also known as PKD3, is a member of the protein kinase C (PKC) family of serine/threonine kinases that play critical roles in the regulation of cellular differentiation and proliferation. PKCv is composed of 890 amino acid residues and has 77.3% similarity to human PKCµ (PKCµ) and 77. 4% similarity to mouse PKD (the mouse homolog of PKCµ) (1). The PKCv mRNA is ubiquitously expressed in various tissues. PKCv has two putative diacylglycerol binding C1 domains, suggesting that it may participate in a novel diacylglycerol-mediated signaling pathway (2). PKCv is translocated to the plasma membrane and activated by the diacylglycerol mimic phorbol 12-myristate 13-acetate. PKCv is an important physiologic target of the B-cell receptor (BCR) and exhibits robust activation after BCR engagement (2). GPCR agonists induce a rapid activation of PKCv by a protein kinase C (PKC)-dependent pathway that leads to the phosphorylation of the activation loop of PKCv. PKCv is present both in the nucleus and cytoplasm and this distribution of PKCv results from its continuous shuttling between both compartments by a mechanism that requires a nuclear import receptor and a competent CRM1-nuclear export pathway (3). Cell stimulation with the GPCR agonist neurotensin induces a rapid and reversible plasma membrane translocation of PKCv that is PKC-dependent. 1. Hayashi, A. et al. (1999) <i>Biochim. Biophys. Acta.</i> 1450, 99-106. 2. Matthews, S.A. et al. (2003) <i>J. Biol. Chem.</i> 278, 9086-91. 3. Rey, O. et al. (2003) <i>J. Biol. Chem.</i> 278, 23773-85. 					
Species Reactivity	Specie	es reactivity is deter	rmined by testing	g in at least one approve	d application (e.g., we	stern blot).	
Western Blot Buffe	er IMPO 0.1%	RTANT: For westerr Tween® 20 at 4°C v	n blots, incubate with gentle shaki	membrane with diluted ng, overnight.	primary antibody in 5%	6 w/v BSA, 1X TBS,	
Applications Key	WB:	Western Blotting IP	: Immunoprecipi	tation			
Cross-Reactivity K	Key H: hur X: Xer GP: G	man M: mouse R: ra nopus Z: zebrafish I Guinea Pig Rab: rab	at Hm: hamster B: bovine Dg: do bit All: all specie	Mk: monkey Vir: virus N og Pg: pig Sc: S. cerevi es expected	/i: mink C: chicken Dn siae Ce: C. elegans H r	n: D. melanogaster r: horse	
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PKD3/PKCv (D57E6) Rabbit mAb (#5655) Datasheet Without Images Cell Signaling Technology

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