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PLCγ1 Antibody		Cell Signaling	
Store at	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#2822	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: R WB, IP		nsitivity: MW (kl logenous 155		UniProt ID: #P19174	Entrez-Gene Id: 5335		
Product Usage Information	Western B	Application Western Blotting Immunoprecipitation		Dilution 1:1000 1:50			
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.					
Specificity / Sensitivi	ty PLCγ1 Anti PLCγ2.	PLCy1 Antibody detects endogenous levels of total PLCy1 protein. This antibody does not cross-react with PLCy2.					
Source / Purification	carboxy-ter	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal residues of human PLCy1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	response to phosphatidy triphosphati PLCy, PLCy subfamily a Phosphoryl Ser1105 by this phosph nonrecepto PLCy forms	Phosphoinositide-specific phospholipase C (PLC) plays a significant role in transmembrane signaling. In response to extracellular stimuli such as hormones, growth factors and neurotransmitters, PLC hydrolyzes phosphatidylinositol 4,5-bisphosphate (PIP2) to generate two secondary messengers: inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG) (1). At least four families of PLCs have been identified: PLC β , PLC γ , PLC δ and PLC ϵ . The PLC β subfamily includes four members, PLC β 1-4. All four members of the subfamily are activated by α - or β - γ -subunits of the heterotrimeric G-proteins (2,3). Phosphorylation is one of the key mechanisms that regulates the activity of PLC. Phosphorylation of Ser1105 by PKA or PKC inhibits PLC β 3 activity (4,5). Ser537 of PLC β 3 is phosphorylated by CaMKII, and this phosphorylation may contribute to the basal activity of PLC β 3. PLC γ is activated by both receptor and nonreceptor tyrosine kinases (6). PLC γ forms a complex with EGF and PDGF receptors, which leads to the phosphorylation of PLC γ 1 (8).					
Background Referen	2. Smrcka, A 3. Taylor, S. 4. Yue, C. e 5. Yue, C. e 6. Margolis, 7. Kim, H.K	V.D. et al. (1997) Annu J. A.V. et al. (1991) Scient J. et al. (1991) Nature : et al. (1998) J Biol Chen et al. (2000) J Biol Chen , B. et al. (1989) Cell 57 . et al. (1991) Cell 65, 4 et al. (1998) Mol Cell E	350, 516-8. 1 273, 18023-7. 1 275, 30220-5. , 1101-7. 35-41.	9.			
Species Reactivity	Species read	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	WB: Weste	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity Key	X: Xenopus	 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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PLCy1 Antibody (#2822) Datasheet Without Images Cell Signaling Technology

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