PLCγ1 (D9H10) XP[®] Rabbit mAb





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Applications: W, W-S, IP, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit IgG	UniProt ID: #P19174	Entrez-Gene Id: 5335		
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation Immunohistochemistry (Paraffin)			Dilution 1:1000 1:10 - 1:50 1:50 1:50 - 1:200			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and μ 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than		
Spacificity/Sap	citivity	For a carrier free (BSA and azide free) version of this product see product #10607. PLCy1 (D9H10) XP [®] Rabbit mAb recognizes endogenous levels of total PLCy1 protein.						
Specificity/Sen	-							
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu1220 of human PLCv1 protein.				prresponding to		
Background		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 (PIP ₂) to generate two secondary messengers: inositol 1,4,5-triphosphate (IP ₃) and diacylglycerol (DAG) (1). At least four families of PLCs have been identified: PLC β , PLC γ , PLC δ , and PLC ϵ . Phosphorylation is one of the key mechanisms that regulate the activity of PLC. PLC γ is activated by both receptor and non-receptor tyrosine kinases (2). PLC γ forms a complex with EGF and PDGF receptors, which leads to the phosphorylation of PLC γ at Tyr771, 783, and 1248 (3). Phosphorylation by Syk at Tyr783 activates the enzymatic activity of PLC γ 1 (4). PLC γ 2 is engaged in antigen-dependent signaling in B cells and collagen-dependent signaling in platelets. Phosphorylation by Btk or Lck at Tyr753, 759, 1197, and 1217 is correlated with PLC γ 2 activity (5,6).						
Background Re	eferences	 Singer, W.D. et al. (1997) Annu Rev Biochem 66, 475-509. Margolis, B. et al. (1989) Cell 57, 1101-7. Kim, H.K. et al. (1991) Cell 65, 435-41. Wang, Z. et al. (1998) Mol Cell Biol 18, 590-7. Watanabe, D. et al. (2001) J Biol Chem 276, 38595-601. Ozdener, F. et al. (2002) Mol Pharmacol 62, 672-9. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	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 Ke	ey	W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivit	су Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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