Phospho-PLD1 (Ser561) Antibody



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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit	UniProt ID: #Q13393	Entrez-Gene Id: 5337
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-PLD1 (Ser561) Antibody detects endogenous levels of PLD1 only when phosphorylated at serine 561. This antibody does not cross-react with phosphorylated PLD2.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser561 of human PLD1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Phosphatidylcholine-specific phospholipase D (PLD) hydrolyzes phosphatidylcholine (PC) to produce choline and phosphatidic acid (PA). PA is the precursor of the second messenger, diacylglycerol (DAG). Two isoforms of PLD (PLD1 and PLD2) have been identified so far. Both are regulated by protein kinases, small GTPases and Ca2 ⁺ (1). PLD1 is phosphorylated at Ser2, Ser561, and Thr147 by PKC (2,3). Phosphorylation at Thr147 and Ser561 regulates PLD1 activity (3).				
Background References		1. Exton, J.H. (1999) Biochim. Biophys. Acta. 1439, 121-133. 2. Kim, Y. et al. (1999) <i>Biochemistry</i> 38, 10344-51. 3. Kim, Y. et al. (2000) J. Biol. Chem. 275, 13621-13627.				
Species Reactivity		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		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
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