

PIP5K1C Antibody



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 87, 90	Source/Isotype: Rabbit	UniProt ID: #O60331	Entrez-Gene Id: 23396
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		PIP5K1C Antibody detects endogenous levels of total PIP5K1C protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around Gly504 of human PIP5K1C. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Phosphatidylinositol-5-phosphate 4-kinases (PIP4Ks) synthesize phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P ₂), a key precursor in phosphoinositide signaling that directly modulates the activity of signaling proteins and cellular processes. There are two subfamilies of PIP kinases, type I and II, that generate PtdIns(4,5)P ₂ from distinct substrate pools. PIP4 type I kinases use PtdIns5P as a substrate, whereas PIP5 type II kinases use PtdIns4P (1,2). In mammalian cells, three isoforms of each PIP4K and PIP5K subfamily, encoded by distinct genes, have been characterized (3-7). All PIP kinases are stimulated by phosphatidic acid, extensively regulated by ARF and Rho GTPases, and inhibited by protein kinase A and PI-stimulated autophosphorylation (8).				
Background References		1. Rameh, L.E. et al. (1997) <i>Nature</i> 390, 192-6. 2. Zhang, X. et al. (1997) <i>J Biol Chem</i> 272, 17756-61. 3. Ishihara, H. et al. (1996) <i>J Biol Chem</i> 271, 23611-4. 4. Loijens, J.C. and Anderson, R.A. (1996) <i>J Biol Chem</i> 271, 32937-43. 5. Ishihara, H. et al. (1998) <i>J Biol Chem</i> 273, 8741-8. 6. Itoh, T. et al (1998) J. Biol. Chem. 273, 20292-20299 7. Boronenkov, I.V. et al. (1998) <i>Mol Biol Cell</i> 9, 3547-60. 8. Oude Weernink, P.A. et al. (2004) <i>Eur J Pharmacol</i> 500, 87-99.				

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 Mk: Monkey

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