PIP5K1C Antibody



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

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 87, 90	Source: Rabbit	UniProt ID: #O60331	Entrez-Gene Id: 23396	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting			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 / Sensiti	vity PIPS	PIP5K1C Antibody detects endogenous levels of total PIP5K1C protein.					
Source / Purificatio	resid		,	•	th a synthetic peptide co urified by protein A and p	, ,	
Background	(Ptd sign gene whe PIPS by p	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 Refere	2. ZI 3. Is 4. Lo 5. Is 6. Ito 7. Bo	 Rameh, L.E. et al. (1997) Nature 390, 192-6. Zhang, X. et al. (1997) J Biol Chem 272, 17756-61. Ishihara, H. et al. (1996) J Biol Chem 271, 23611-4. Loijens, J.C. and Anderson, R.A. (1996) J Biol Chem 271, 32937-43. Ishihara, H. et al. (1998) J Biol Chem 273, 8741-8. Itoh, T. et al (1998) J. Biol. Chem. 273, 20292-20299 Boronenkov, I.V. et al. (1998) Mol Biol Cell 9, 3547-60. Oude Weernink, P.A. et al. (2004) Eur J Pharmacol 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 WB: Western Blotting

Cross-Reactivity Key

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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PIP5K1C Antibody (#3296) Datasheet Without Images Cell Signaling Technology

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