693 Store at -20C

PIP5K1A Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 62	Source: Rabbit	UniProt ID: #Q99755	Entrez-Gene Id: 8394	
Product Usage Information	Ар	Application			Dilution		
	We	Western 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 / Sensitivity		PIP5K1A Antibody detects endogenous levels of total PIP5K1A protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues around Gly64 of human PIP5K1A. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	(Ptd sign gen whe PIP! 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	 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. 					

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

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

8. Oude Weernink, P.A. et al. (2004) Eur J Pharmacol 500, 87-99.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

PIP5K1A Antibody (#9693) Datasheet Without Images Cell Signaling Technology

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.