e at -20C	INPP4b (D19B9) Rabbit mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#		3 Trask Lane Danvers	Massachusetts 01923 USA		

Applications: WB, IP	Reactivity: H	: Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #O15327	Entrez-Gene Id: 8821		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		INPP4b (D19B9) Rabbit mAb recognizes endogenous levels of total INPP4b protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human INPP4b protein.						
Background Background References		Phosphatidylinositol lipids and phosphoinositides are important second messengers, their generation controlling many cellular events. Intracellular levels of these molecules are regulated by phosphoinositide kinases and phosphatases. One of the best characterized lipid kinases is phosphoinositide 3-kinase (PI3K), which is responsible for phosphorylation on the D-3 position of the inositide head group (1). This action of PI3K catalyzes the production of phosphatidylinositol-3,4,5-triphosphate by phosphorylating phosphatidylinositol (PI), phosphatidylinositol-4-phosphate (PIP), and phosphatidylinositol-4,5-bisphosphate (PIP2). Growth factors and hormones trigger this phosphorylation event, which in turn coordinates cell growth, cell cycle entry, cell migration, and cell survival (1). PTEN, the well characterized partnering phosphatase, reverses this process by removing the phosphate for PI(3,4,5)P3 at the D-3 position to generate PI(4,5)P2 (1,2). Dephosphorylation on the D-5 position to generate PI(3,4)P2 occurs through the action of inositol polyphosphate 4-phosphatase isoenzymes type I (INPP4a) and type II (INPP4b) (4,5). While INPP4a has been implicated in neuronal survival and megakaryocyte lineage determination (6,7), less is understood about INPP4b. It has been shown that two splice variants of INPP4b occur in mice, each showing distinct tissue distribution and subcellular localization (5,8). 1. Cantley, L.C. (2002) <i>Science</i> 296, 1655-7.						
	2 3 2 5 6 7	2. Myers, M.P. et al. (199 3. Ware, M.D. et al. (199 4. Norris, F.A. et al. (199 5. Norris, F.A. et al. (199 6. Nystuen, A. et al. (200 7. Vyas, P. et al. (2000) <i>F</i> 8. Ferron, M. and Vacher	6) Blood 88, 283 5) J Biol Chem 2 7) J Biol Chem 2 1) Neuron 32, 2 Proc Natl Acad S	33-40. 270, 16128-33. 272, 23859-64. 03-12. Sci USA 97, 13696-701.				
Species Reactivity	S	Species reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	stern 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	١	WB: Western Blotting IP:	: Immunoprecipi	tation				
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.						

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