Revision 1						
PI3 Kinase p110 mAb	)δ (D1Q7R) Ra	bbit			CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com	
20				Support:	877-678-TECH (8324)	
<sup>4</sup> 340				Web:	info@cellsignal.com cellsignal.com	
3 Trask Lane   Danvers   Massachusetts   01923   USA						
For Research Use Only. Not for U						
Applications: Reactive WB, IP H M F		<b>MW (kDa):</b> 110	Source/Isotype: Rabbit IgG	UniProt ID: #O00329	Entrez-Gene Id: 5293	
Product Usage	Application			Dilutior	n	
Information	Western Blotting	Western Blotting			1:1000	
	Immunoprecipitation			1:50		
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	PI3 Kinase p110 $\delta$ (D1Q7R) Rabbit mAb recognizes endogenous levels of total PI3 Kinase Class III $\delta$ protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His481 of human PI3 Kinase Class III $\delta$ protein.					
Background	Phosphoinositide 3-kinase (PI3K) catalyzes the production of phosphatidylinositol-3,4,5-triphosphate by phosphorylating phosphatidylinositol (PI), phosphatidylinositol-4-phosphate (PIP), and phosphatidylinositol-4,5-bisphosphate (PIP <sub>2</sub> ). Growth factors and hormones trigger this phosphorylation event, which in turn coordinates cell growth, cell cycle entry, cell migration, and cell survival (1). PTEN reverses this process, and research studies have shown that the PI3K signaling pathway is constitutively activated in human cancers that have loss of function of PTEN (2). PI3Ks are composed of a catalytic subunit (p110) and a regulatory subunit. Various isoforms of the catalytic subunit (p110 $\alpha$ , p110 $\beta$ , p110 $\gamma$ , and p110 $\delta$ ) have been isolated, and the regulatory subunits that associate with p110 $\alpha$ , p110 $\beta$ , and p110 $\delta$ are p85 $\alpha$ and p85 $\beta$ (3). In contrast, p110 $\gamma$ associates with a p101 regulatory subunit that is unrelated to p85. Furthermore, p110 $\gamma$ is activated by $\beta\gamma$ subunits of heterotrimeric G proteins (4).					
Background References	1. Cantley, L.C. (2002) So 2. Simpson, L. and Parso 3. Neri, L.M. et al. (2002) 4. Stoyanov, B. et al. (199	ns, R. (2001) Ex Biochim Biophys	p Cell Res 264, 29-41. s Acta 1584, 73-80.			
Species Reactivity	Species reactivity is deter	mined by testing	in at least one approved	d 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 IP: Immunoprecipitation					
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>					
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc. 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.					

PI3 Kinase p110 δ (D1Q7R) Rabbit mAb (#34050) 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.