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PI3 Kinase Class III Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit	UniProt ID: #Q8NEB9	Entrez-Gene Id: 5289
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		PI3 Kinase Class III Antibody detects endogenous levels of total PI3K class III protein. This antibody may cross-react with an unidentified protein at ~55 kDa.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human PI3K class III. Antibodies are purified peptide affinity chromatography.				
Background		Three distinct types of phosphoinositide 3-kinases (PI3K) have been characterized. Unlike other PI3Ks, PI3K class III catalyzes the phosphorylation of phosphatidylinositol at the D3 position, producing phosphatidylinositol-3-phosphate (PIP3) (1). PI3K class III is the mammalian homolog of Vps34, first identified in yeast. PI3K class III interacts with the regular subunit p150, the mammalian homolog of Vps15, which regulates cellular membrane association through myristoylation (2,3). PIP3 recruits several proteins with FYVE or PX domains to membranes regulating vesicular transport and protein sorting (4). Moreover, PI3K class III has been shown to regulate autophagy, trimeric G-protein signaling and the mTOR nutrient-sensing pathway (5).				
Background References		 Odorizzi, G. et al. (2000) Trends Biochem Sci 25, 229-35. Panaretou, C. et al. (1997) J Biol Chem 272, 2477-85. Kihara, A. et al. (2001) J Cell Biol 152, 519-30. Corvera, S. (2001) Traffic 2, 859-66. Yan, Y. and Backer, J.M. (2007) Biochem Soc Trans 35, 239-41. 				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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				
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