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PI3 Kinase Class III (D9A5) Rabbit



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit	UniProt ID: #Q8NEB9	Entrez-Gene Id: 5289	
Product Usage Information	Ар	plication		Dilution			
	We	estern Blotting		1:1000			
	Imi	munoprecipitation		1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensit	t ivity PI3	PI3 Kinase Class III (D9A5) Rabbit mAb detects endogenous levels of total PI3K class III protein.					
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide surrounding human PI3 kinase class III.					ounding Lys630 of		
Background	PI3I pho ider whi with PI3I	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 Refer	2. P 3. K 4. C	anaretou, C. et al. (ihara, A. et al. (2003 orvera, S. (2001) <i>Tr</i>	1997) J Biol Chei 1) J Cell Biol 152, raffic 2, 859-66.				

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 **IP:** Immunoprecipitation

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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