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## **PI3 Kinase Class III Antibody**



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

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 100	Source: Rabbit	UniProt ID: #Q8NEB9	Entrez-Gene Id: 5289
Product Usage Information	Ар	plication		Dilution		
	We	estern Blotting			1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ 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 / Purificati	Fication  Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human PI3K class III. Antibodies are purified peptide affinity chromatography.					rresponding to
Background	PI3k phos iden whic with PI3k	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 Refe	2. P 3. Ki 4. C	<ol> <li>Odorizzi, G. et al. (2000) Trends Biochem Sci 25, 229-35.</li> <li>Panaretou, C. et al. (1997) J Biol Chem 272, 2477-85.</li> <li>Kihara, A. et al. (2001) J Cell Biol 152, 519-30.</li> <li>Corvera, S. (2001) Traffic 2, 859-66.</li> <li>Yan, Y. and Backer, J.M. (2007) Biochem Soc Trans 35, 239-41.</li> </ol>				

### **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

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