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אָ PI3 Kinase Class II α (D3Q5B) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit IgG	UniProt ID: #000443	Entrez-Gene Id: 5286		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 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/Sen	sitivity	PI3 Kinase Class II α (D	Kinase Class II α (D3Q5B) Rabbit mAb recognizes endogenous levels of total PI3K class II α protein.					
Source / Purific	Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding tresidues surrounding Gly717 of human PI3K class II α protein.					prresponding to		
Background		Class II phosphatidylin II isoforms of the PI3K (1,2). PI3K Class II α ge bisphosphate (PI(3, 4)F Class II α is located in a compartments, clathri that PI3K Class II α reg clathrin-dependent tra mediates translocatior insulin (7). PI3K Class I vascular smooth musc sensitive to the PI3K in	nositol 3-kinases (P. family. This C2 do merates phosphati 22) from phosphati various intracellula n-coated vesicles, a gulates the assemb ifficking and sortin n of the glucose tra I α has also been s le contraction (9). I hibitors wortman	I3K) contain a C-terminal main mediates protein a dylinositol 3-phosphate dylinositol and phospha r locations such as the tr and nuclear speckles (1,4 ly and distribution of cla g within the trans Golgi insporter GLUT4 to the p hown to regulate neuros Unlike other PI3K family hin and LY294002 (3).	C2 domain that is in nd phospholipid bir (PIP3) and phospha tidylinositol 4-phos rans-Golgi network, 4,5). Research studie thrin, resulting in the network (5,6). PI3K lasma membrane in secretory granule es members, PI3K Class	unique to the class ading acitivities tidylinositol 3,4- phate (3). PI3K endocytic es have indicated he modulation of Class II α also in response to kocytosis (8) and ss II α is less		
Background References		 Didichenko, S.A. and Thelen, M. (2001) <i>J Biol Chem</i> 276, 48135-42. Stahelin, R.V. et al. (2006) <i>J Biol Chem</i> 281, 39396-406. Domin, J. et al. (1997) <i>Biochem J</i> 326 (Pt 1), 139-47. Domin, J. et al. (2000) <i>J Biol Chem</i> 275, 11943-50. Gaidarov, I. et al. (2001) <i>Mol Cell</i> 7, 443-9. Gaidarov, I. et al. (2005) <i>J Biol Chem</i> 280, 40766-72. Falasca, M. et al. (2007) <i>J Biol Chem</i> 282, 28226-36. Wen, P.J. et al. (2008) <i>Mol Biol Cell</i> 19, 5593-603. Yoshioka, K. et al. (2007) <i>Mol Pharmacol</i> 71, 912-20. 						
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For weste dry milk, 1X TBS, 0.1%	ern blots, incubate Tween® 20 at 4°C	membrane with diluted with gentle shaking, ove	primary antibody ir rnight.	n 5% w/v nonfat		
Applications Ke	ey 🛛	W: Western Blotting IF	P: Immunoprecipita	ation				
Cross-Reactivit	у Кеу	H: Human M: Mouse R	:: Rat Mk: Monkey					
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