

7151

Rubicon (D8B2) Rabbit mAb



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

Applications: W	Reactivity:	Sensitivity: Endogenous	MW (kDa): 130	Source/Isotype: Rabbit	UniProt ID: #Q92622	Entrez-Gene Id: 9711
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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		Rubicon (D8B2) Rabbit mAb recognizes endogenous levels of total Rubicon protein. Background bands of unknown origin are detected between 60 and 65 kDa.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Rubicon protein.				
Background		contents (1,2). Autoph associated with a nun neurodegeneration, in discovered in yeast ar involved in the formal lysosomes for degrad vacuolar trafficking an Beclin-1, UVRAG, Atg1 bind to Beclin-1 and plocalizes to the endos enhances autophagy	nagy is generally ac nber of physiologic nfection, and cance nd is directed by a r tion of autophagos lation. The class III nd autophagy (4,5). 14, and Rubicon (6-1 participate in unique ome and lysosome and endocytic traff , and ER and can en	autophagosomic-lysoso tivated by conditions of al processes, including dr (3). The molecular machumber of autophagy-reomes, which are cytoplatype phosphoinositide 3 Multiple proteins associal). Atg14 and Rubicon vecomplexes with opposition, inhibits Vps34 lipid kindicking (11,12). In contrast hance Vps34 activity. Kn	nutrient deprivation levelopment, differe chinery of autophace lated (Atg) genes. T smic vacuoles that -kinase (PI3K) Vps3- iate with Vps34, inc vere identified base ing functions (9-12) ase activity; knockdost, Atg14 localizes to	n but is also entiation, y was largely hese proteins are are delivered to 4 regulates uding p105/Vps15, d on their ability to Rubicon, which own of Rubicon
Background Ref	erences	1. Reggiori, F. and Klionsky, D.J. (2002) <i>Eukaryot Cell</i> 1, 11-21. 2. Codogno, P. and Meijer, A.J. (2005) <i>Cell Death Differ</i> 12 Suppl 2, 1509-18. 3. Levine, B. and Yuan, J. (2005) <i>J Clin Invest</i> 115, 2679-88. 4. Corvera, S. (2001) <i>Traffic</i> 2, 859-66. 5. Yan, Y. and Backer, J.M. (2007) <i>Biochem Soc Trans</i> 35, 239-41. 6. Stack, J.H. et al. (1995) <i>J Cell Biol</i> 129, 321-34. 7. Zeng, X. et al. (2006) <i>J Cell Sci</i> 119, 259-70. 8. Liang, C. et al. (2006) <i>Nat Cell Biol</i> 8, 688-99. 9. Itakura, E. et al. (2008) <i>Mol Biol Cell</i> 19, 5360-72. 10. Sun, Q. et al. (2008) <i>Proc Natl Acad Sci USA</i> 105, 19211-6. 11. Zhong, Y. et al. (2009) <i>Nat Cell Biol</i> 11, 468-76. 12. Matsunaga, K. et al. (2009) <i>Nat Cell Biol</i> 11, 385-96.				
Species Reactivi	tv	Species reactivity is do	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

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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

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