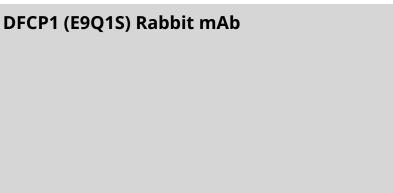
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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit IgG	UniProt ID: #Q9HBF4	Entrez-Gene Id: 53349			
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100				
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	DFCP1 (E9W1S) Rabbit mAb recognizes endogenous levels of total DFCP1 protein.							
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro336 of human DFCP1 protein.							
Background		Double FYVE-containing protein 1 (DFCP1; gene name ZFYVE1), which was identified from a human bone marrow library, contains two carboxyl terminal FYVE domains that function as binding sites for phosphatidylinositol 3-phosphate (PI3P) (1). PI3P generated predominantly by the class III PI3-kinase VPS34 plays a key role in membrane trafficking as well as autophagy (2,3). DFCP1 is primarily localized to the Golgi and endoplasmic reticulum (ER) (4,5). However, during autophagy DFCP1 re-localizes to subdomains of the ER, the omegasome, which become the sites for autophagosome formation (6,7).							
Background Re	eferences	1. Derubeis, A.R. et al. (2000) <i>Gene</i> 255, 195-203. 2. Corvera, S. (2001) <i>Traffic</i> 2, 859-66. 3. Yan, Y. and Backer, J.M. (2007) <i>Biochem Soc Trans</i> 35, 239-41. 4. Ridley, S.H. et al. (2001) <i>J Cell Sci</i> 114, 3991-4000. 5. Cheung, P.C. et al. (2001) <i>Biochem J</i> 355, 113-21. 6. Itakura, E. and Mizushima, N. (2010) <i>Autophagy</i> 6, 764-76. 7. McAlpine, F. et al. (2013) <i>Autophagy</i> 9, 361-73.							
Species Reacti	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).			
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation							
Cross-Reactivi	ty Key	H: Human							
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