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Atg5 (D1G9) Rabbit mAb		Cell Signaling	
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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H1Y0	Entrez-Gene Id: 9474		
Product Usage Information		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/Sensitivity		Atg5 (D1G9) Rabbit mAb recognizes endogenous levels of total Atg5 protein. This antibody is capable of detecting Atg5 when conjugated to Atg12.						
Species predict based on 100% homology		Bovine, Dog, Pig						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro187 of human Atg5 protein.						
Background		contents (1,2). Autopha associated with a num neurodegeneration, in discovered in yeast and autophagosome involv Atg5 and targeted to a	agy is generally act ber of physiologica fection, and cance d referred to as au res a ubiquitin-like utophagosome ve	autophagosomic-lysosor ivated by conditions of r al processes including de r (3). The molecular mac tophagy-related (<i>Atg</i>) ge conjugation system in w sicles (4-6). This conjuga -like enzyme Atg10 (7,8)	nutrient deprivation evelopment, differe hinery of autophag enes. Formation of t which Atg12 is coval tion reaction is med	h but has also been ntiation, y was largely he ently bound to		
Background Re	ferences	 Reggiori, F. and Klionsky, D.J. (2002) <i>Eukaryot Cell</i> 1, 11-21. Codogno, P. and Meijer, A.J. (2005) <i>Cell Death Differ</i> 12 Suppl 2, 1509-18. Levine, B. and Yuan, J. (2005) <i>J Clin Invest</i> 115, 2679-88. Mizushima, N. et al. (1998) <i>J Biol Chem</i> 273, 33889-92. Mizushima, N. et al. (1998) <i>Nature</i> 395, 395-8. Suzuki, K. et al. (2001) <i>EMBO J</i> 20, 5971-81. Tanida, I. et al. (1999) <i>Mol Biol Cell</i> 10, 1367-79. Shintani, T. et al. (1999) <i>EMBO J</i> 18, 5234-41. 						
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Ke	ey	W: Western Blotting IP	: Immunoprecipita	ition				
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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