

Atg5 (D6M7Q) Rabbit mAb



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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H1Y0	Entrez-Gene Id: 9474
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochen	nistry)		Dilution 1:1000 1:100 1:200
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 (D6M7Q) Rabbit mAb recognizes endogenous levels of total Atg5 protein. This antibody is capable of detecting Atg5 conjugated to Atg12. This antibody may cross-react with a protein of unknown origin at ~80 kDa in some cell lines.				
Species predict based on 100% homology		Monkey				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly232 of human Atg5 protein.				
Background		Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents (1,2). Autophagy is generally activated by conditions of nutrient deprivation but has also been associated with a number of physiological processes including development, differentiation, neurodegeneration, infection, and cancer (3). The molecular machinery of autophagy was largely discovered in yeast and referred to as autophagy-related (<i>Atg</i>) genes. Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atg12 is covalently bound to Atg5 and targeted to autophagosome vesicles (4-6). This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atg7 and the E2-like enzyme Atg10 (7,8).				
Background References		1. Reggiori, F. and Klio 2. Codogno, P. and Me 3. Levine, B. and Yuan 4. Mizushima, N. et al. 5. Mizushima, N. et al. 6. Suzuki, K. et al. (200 7. Tanida, I. et al. (199 8. Shintani, T. et al. (19	eijer, A.J. (2005) <i>Cell</i> , J. (2005) <i>J Clin Invo</i> . (1998) <i>J Biol Chem</i> . (1998) <i>Nature</i> 395 11) <i>EMBO J</i> 20, 5971 9) <i>Mol Biol Cell</i> 10,	Death Differ 12 Suppl 2, est 115, 2679-88. 273, 33889-92. , 395-8. -81. 1367-79.	1509-18.	
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 TBS, 0.1% Tween $\$$ 20 at 4°C with gentle shaking, overnight.				n 5% w/v BSA, 1X
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocy				cytochemistry)
Cross-Reactivity Key		H: Human				

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