OSOO

Atg5 (D5G3) Rabbit mAb



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Applications: W. IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H1Y0	Entrez-Gene Id: 9474
Product Usage Information		Application Western Blotting Immunoprecipitation		J	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 (D5G3) Rabbit mAb recognizes endogenous levels of total Atg5 protein. This antibody is capable of detecting Atg5 when conjugated to Atg12.				
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		 Reggiori, F. and Klionsky, D.J. (2002) Eukaryot Cell 1, 11-21. Codogno, P. and Meijer, A.J. (2005) Cell Death Differ 12 Suppl 2, 1509-18. Levine, B. and Yuan, J. (2005) J Clin Invest 115, 2679-88. Mizushima, N. et al. (1998) J Biol Chem 273, 33889-92. Mizushima, N. et al. (1998) Nature 395, 395-8. Suzuki, K. et al. (2001) EMBO J 20, 5971-81. Tanida, I. et al. (1999) Mol Biol Cell 10, 1367-79. Shintani, T. et al. (1999) EMBO J 18, 5234-41. 				

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 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human Mk: Monkey

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