Atg5 (D5F5U) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H1Y0	Entrez-Gene Id 9474	
Product Usage Information	Ар	Application		Dilution			
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:100			
Storage				7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than onot aliquot the antibody.			
Specificity / Sensitivity		Atg5 (D5F5U) Rabbit mAb recognizes endogenous levels of total Atg5 protein. This antibody is capable of detecting Atg5 conjugated to Atg12.					
Species predicted to react based on 100% sequence homology:		key, Xenopus, Dog	, Pig				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu265 of human Atg5 protein.					
Background	cont asso neu disc invo auto	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 (Atg) 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).					
1. Reggiori, F. and Klionsky, D.J. (2002) Eukaryot Cell 1, 11-21. 2. Codogno, P. and Meijer, A.J. (2005) Cell Death Differ 12 Suppl 2, 1509-18. 3. Levine, B. and Yuan, J. (2005) J Clin Invest 115, 2679-88. 4. Mizushima, N. et al. (1998) J Biol Chem 273, 33889-92. 5. Mizushima, N. et al. (1998) Nature 395, 395-8. 6. Suzuki, K. et al. (2001) EMBO J 20, 5971-81. 7. Tanida, I. et al. (1999) Mol Biol Cell 10, 1367-79. 8. 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,

Applications Key WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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