Atg5 Antibody



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Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 55	Source: Rabbit	UniProt ID: #Q9H1Y0	Entrez-Gene Id 9474	
Product Usage Information	Ap	Application		Dilution			
	We	estern Blotting			1:1000		
	Im	munoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens	·	Atg5 Antibody detects endogenous levels of total Atg5. The observed band represents the Atg12-Atg5 conjugated form, but the antibody likely reacts with free Atg5 as well.					
Source / Purifica		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy-terminus of Atg5. Antibodies were purified by peptide affinity chromatography.					
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 (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).					
Background Ref	2. C 3. L 4. N 5. N 6. S	odogno, P. and Mei evine, B. and Yuan, lizushima, N. et al. (lizushima, N. et al. (uzuki, K. et al. (200	iori, F. and Klionsky, D.J. (2002) <i>Eukaryot Cell</i> 1, 11-21. gno, P. and Meijer, A.J. (2005) <i>Cell Death Differ</i> 12 Suppl 2, 1509-18. e, B. and Yuan, J. (2005) <i>J Clin Invest</i> 115, 2679-88. shima, N. et al. (1998) <i>J Biol Chem</i> 273, 33889-92. shima, N. et al. (1998) <i>Nature</i> 395, 395-8. ki, K. et al. (2001) <i>EMBO J</i> 20, 5971-81. a, I. et al. (1999) <i>Mol Biol Cell</i> 10, 1367-79.				

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

WB: Western Blotting IP: Immunoprecipitation

8. Shintani, T. et al. (1999) EMBO J 18, 5234-41.

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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