#13492 Store at -20C

Atg101 (E1Z4W) Rabbit mAb



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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #Q9BSB4	Entrez-Gene Id 60673	
Product Usage Information	•	plication		Dilution			
inioniauon	We	stern Blotting			1:1000		
Storage		•	***	7.5), 150 mM NaCl, 100 $\mu g/ml$ BSA, 50% glycerol and less than o not aliquot the antibody.			
Specificity / Sensitivity		Atg101 (E1Z4W) Rabbit mAb recognizes endogenous levels of total Atg101 protein.					
Source / Purification	• • •	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val177 of human Atg101 protein.					
Background	com degr depr diffe large com Inter	Atg101 was discovered as a binding protein for Atg13, a component of the ULK1 serine-threonine kinase complex required for autophagy (1-3). Autophagy is a catabolic process for the autophagosomic-lysosomal degradation of bulk cytoplasmic contents (4,5). It is generally activated by conditions of nutrient deprivation, but is also associated with a number of physiological processes, including development, differentiation, neurodegeneration, infection, and cancer (6). The molecular machinery of autophagy was largely discovered in yeast and is directed by a number of autophagy-related (Atg) genes. The ULK1 complex includes both Atg13 and FIP200 and is required for starvation-induced autophagy (7-9). Interaction between Atg101 and Atg13 can be important for the stability and basal phosphorylation of Atg13 and ULK1 (1,2).					
Background Refer	2. H 3. C 4. R 5. C 6. Le 7. H 8. Ju	eggiori, F. and Xlion odogno, P. and Meij evine, B. and Yuan, osokawa, N. et al. (ung, C.H. et al. (200	2009) Autophagy 17) J Biol Chem 2 18ky, D.J. (2002) 19er, A.J. (2005) C 19er J. (2005) J Clin I 19er J. (2009) Mol Biol Co 19er J. (2005) J Cell 2	65			

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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

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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