e at -20C	Atg13 (E1Y9V) Rabbit mAb		ll Signaling снмогоду [®]
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For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: MW (kDa): Source

Applications: WB, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 72	Source/Isotype: Rabbit IgG	UniProt ID: #O75143	Entrez-Gene Id: 9776		
Product Usage Information	We	plication stern Blotting nunoprecipitation nunofluorescence (Immunocytochen	nistry)	1:10 1:10			
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. For a carrier free (BSA and azide free) version of this product see product #66925.						
Specificity / Sensitiv		Atg13 (E1Y9V) Rabbit mAb recognizes endogenous levels of total Atg13 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn230 of human Atg13 protein.						
Background	com asse neu disc Atg: linke defe and Sim loca pho dire stuc	tents (1,2). Autopha bociated with a numb rodegeneration, infe overed in yeast and L3/Apg13 was origin ed to Atg1/Apg1, a p ects in autophagy of Atg13, and is inhibi ilarly, mammalian A lizes to autophagic sphorylates both Atg ctly phosphorylate A	gy is generally ac ber of physiologica ection, and cance d referred to as au hally identified in y protein kinase req berved in Atg13 ted by TOR-depet tg13 forms a com isolation membra g13 and ULK1, st Atg13 at a yet uning 13 and FIP200 c	autophagosomic-lysoso trivated by conditions of al processes including d r (3). The molecular ma trophagy-related (Atg) g yeast as a constitutively uired for autophagy (4). mutants (4). Autophagy endent phosphorylation of plex with the Atg1 homo nes and regulates auto uppressing ULK1 kinase dentified site, presumab an function independen	inutrient deprivation bu levelopment, differenti- chinery of autophagy w genes. expressed protein that . Overexpression of At requires a direct asso of Atg13 under high-nu ologues ULK1/2, along phagosome biogenesi e activity and autophag	ut has also been ation, was largely tt was genetically g1 suppresses the ciation between Atg1 utrient conditions (5). g with FIP200, which s (6-8). mTOR gy (7-9). ULK1 can gy (7,8). Additional		
Background Refere	2. C 3. L 4. F 5. K 6. G 7. H 8. J 9. K	odogno, P. and Mei	jer, A.J. (2005) C J. (2005) J Clin I L997) Gene 192, 00) J Cell Biol 15 009) J Biol Chem 2009) Mol Biol Cell 2 Nat Cell Biol 13, 1	0, 1507-13. 284, 12297-305. ell 20, 1981-91. 20, 1992-2003. 32-41.	ol 2, 1509-18.			
Species Reactivity	Spec	ies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).		
Western Blot Buffer		DRTANT: For weste Tween® 20 at 4°C		membrane with diluted ng, overnight.	primary antibody in 59	% w/v BSA, 1X TBS,		
Applications Key	WB	Western Blotting I	P: Immunoprecipi	tation IF-IC: Immunoflue	orescence (Immunocy	tochemistry)		

3/23/24, 10:38 AM	Atg13 (E1Y9V) Rabbit mAb (#13468) Datasheet Without Images Cell Signaling Technology				
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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