3/23/24, 1:33 PM Revision 3

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e at -20C	Atg13 (D4P1K) Rabbit mAb	C T	Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only	/ Not for Use	in Diagnostic Procedures.
FUI NESCAICH USE UNI	1101101030	in Diagnostic Frocedures.

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 72	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #O75143	Entrez-Gene Id: 9776
Product Usage Information	We	plication estern Blotting munoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage				7.5), 150 mM NaCl, 100 not aliquot the antibody		erol and less than
Specificity / Sensiti	i <b>vity</b> Atg	Atg13 (D4P1K) Rabbit mAb recognizes endogenous levels of total Atg13 protein.				
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp462 of human Atg13 protein.				
Background		tents (1,2). Autopha ociated with a numb rodegeneration, infe	gy is generally ac per of physiologic ection, and cance	autophagosomic-lysosc tivated by conditions of al processes including d r (3). The molecular ma utophagy-related (Atg) g	nutrient deprivation b evelopment, differenti chinery of autophagy	ut has also been ation,
	link defe and Sim loca pho dire stuc	ed to Atg1/Apg1, a p ects in autophagy ob Atg13, and is inhibi ilarly, mammalian A dizes to autophagic sphorylates both Atg ctly phosphorylate A	protein kinase rec pserved in Atg13 ted by TOR-depet tg13 forms a com isolation membra g13 and ULK1, su Atg13 at a yet uni- g13 and FIP200 co	veast as a constitutively uired for autophagy (4). mutants (4). Autophagy indent phosphorylation of uplex with the Atg1 homo unes and regulates autop uppressing ULK1 kinase dentified site, presumab an function independen	Overexpression of Al requires a direct asso of Atg13 under high-nu ologues ULK1/2, along phagosome biogenes activity and autophag ly to promote autophag	g1 suppresses the ociation between Atg1 utrient conditions (5). g with FIP200, which is (6-8). mTOR gy (7-9). ULK1 can agy (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) <i>C</i> J. (2005) <i>J Clin I</i> L997) Gene 192, 00) <i>J Cell Biol</i> 15 009) <i>J Biol Chem</i> 2009) <i>Mol Biol Cell</i> 2 Nat Cell Biol 13, 1	0, 1507-13. 284, 12297-305. ell 20, 1981-91. 20, 1992-2003. 32-41.	l 2, 1509-18.	
Species Reactivity	Spec	cies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern blot).
Western Blot Buffe				membrane with diluted th gentle shaking, overn		% w/v nonfat dry
Applications Key		: Western Blotting I	P: Immunoprecipi	tation		

3/23/24, 1:33 PM	Atg13 (D4P1K) Rabbit mAb (#13273) 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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