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Atg2A Antibody	T C	ell Signaling
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com
	Support:	877-678-TECH (8324)
#15011	Web:	info@cellsignal.com cellsignal.com
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## For Research Use Only. Not for Use in Diagnostic Procedures.

••	tivity: Sensitivity: H Endogenous	<b>MW (kDa):</b> 213	Source: Rabbit	UniProt ID: #Q2TAZ0	Entrez-Gene Id: 23130
Product Usage Information	Application Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.			
Specificity / Sensitivity	Atg2A Antibody recogniz	zes endogenous le	vels of total Atg2A p	otein.	
Source / Purification	Polyclonal antibodies ar residues surrounding G affinity chromatography.	lu750 of human Atg	-		
Background	Autophagy is a catabolic autophagosomes and ly autophagy-related gene indicate that Atg2 is ess with Atg18 (2-6). Two hu silencing of both results autophagy targets Atg2/ DFCP1, WIPI-1, and oth Atg2 proteins also funct changes in the size, nur droplets are not observe Atg2 in autophagy (7). S autophagosomal memb to the lipid droplets inde etoposide- and doxorub topoisomerase II inhibito associated with gastric a	vsosomes. The con es (Atg) that were o cential for autophag uman Atg2 homolog in the accumulatio A to the initiation sin ner autophagy-relation ion in lipid droplet r mber, and distribution ed in Atg5-depleted Starvation-induced ranes enriched in F pendent of autopha- icin-induced apopto- pr-mediated apopto-	trol of autophagy inv riginally characterize y and the retrograde gs (Atg2A, Atg2B) ar n of unclosed autoph te of autophagosome ted proteins (8). metabolism as deple on of lipid droplets (7 cells, suggesting th autophagy directs At PI3P, while another s agic status (8). An in posis suggests that At posis (9). Mutations in	olves proteins encoded d in yeast (1). Research transport of Atg9 throug e critical for autophagos hagic structures (7). Sta e biogenesis, where it a tion of both Atg2A and A 7,8). These morphologic at this function is indepe g2A (along with Atg14L ubpopulation of Atg2A a crease in Atg2A express g2A may be a useful in the corresponding Atg2	by a set of n studies in yeast gh an interaction some formation as rvation-induced ssociates with AtgB results in real changes in lipid endent of the role of ) to localize to early and Atg14L localizes sion during dicator of 28 gene are
Background References	<ol> <li>Reggiori, F. and Klion</li> <li>Shintani, T. et al. (200</li> <li>Wang, C.W. et al. (200</li> <li>Suzuki, K. et al. (2003</li> <li>Obara, K. et al. (2003</li> <li>Reggiori, F. et al. (2007</li> <li>Velikkakath, A.K. et al</li> <li>Pfisterer, S.G. et al. (2007</li> <li>Kusama, Y. et al. (2007</li> <li>Kang, M.R. et al. (2007</li> </ol>	<ul> <li>(1) J Biol Chem 270</li> <li>(01) J Biol Chem 271</li> <li>(1) EMBO J 20, 597</li> <li>(2) J Biol Chem 283,</li> <li>(2) Dev Cell 6, 79-9</li> <li>(2012) Mol Biol C</li> <li>(2014) J Lipid Res 5</li> <li>(209) Apoptosis 14, 1</li> </ul>	6, 30452-60. 76, 30442-51. 1-81. 23972-80. 90. Cell 23, 896-909. 55, 1267-78. 165-75.		
Species Reactivity	Species reactivity is dete	ermined by testing i	n at least one approv	ved application (e.g., we	estern blot).
Western Blot Buffer	IMPORTANT: For wester milk, 1X TBS, 0.1% Twee				% w/v nonfat dry
Applications Key Cross-Reactivity Key	WB: Western Blotting				

3/23/24, 1:41 PM	Atg2A Antibody (#15011) Datasheet Without Images Cell Signaling Technology		
	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>		
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