Phospho-UI Rabbit mAb 905 907 17 907 907 907 907 907 907 907 907 907 90	-		-	3 Trask I	Orders: Support: Web:	Cell Signaling ECHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com	
	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 140-150	Source/Isotype: Rabbit IgG	UniProt ID: #075385	Entrez-Gene Id: 8408	
Product Usage Information Storage	West			7.5), 150 mM NaCl, 100		glycerol and less than	
Specificity / Sensitivi	ty Phosp	ho-ULK1 (Ser638	3) (D8K9O) Rabb	o not aliquot the antibody. bit mAb recognizes endogenous levels of ULK1 protein only when			
Source / Purification	Mono	phosphorylated at Ser638. Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser638 of human ULK1 protein.					
Background	mamn extens domai The ro localiz (5). Ye and sy Atg1// (8), a can au can au autop 16).~F growth Conve	nalian homologs c sion and growth (1 in followed by a ce bles of ULK1 and 1 red to neuronal gro east two-hybrid stu yntenin (6). Structi Apg1 (7). Knockdo catabolic process ct as a convergen hagy-related (Atg) Phosphorylation of h and an inhibitor	of the <i>C. elegans</i> 1-4). Both protein entral proline/seri JLK2 in axon gro owth cones and a udies found ULK1 ural similarity of U won experiments for the degradati ce point for multip proteins, regulat f ULK1 at Ser638 of autophagy tha tivated during low	with have been linked to are involved in endocyto L/2 associated with moo JLK1/2 has also been ro using siRNA demonstra on of bulk cytoplasmic ble signals that control a ing phosphorylation sta and Ser757 is mediate t disrupts the interaction w nutrient conditions an	nutants exhibited a and contain an ar ghly conserved ca o studies showing osis of critical grov lulators of the end ecognized with the ated that ULK1 is e contents (9,10). It autophagy (11), ar tes and protein tra d by mTOR, whic n between ULK1 a	abnormal axonal mino-terminal kinase arboxy-terminal domain. that the kinases are vth factors, such as NGF locytic pathway, SynGAP, e yeast autophagy protein essential for autophagy appears that Atg1/ULK1 nd can bind to several afficking (12- h is a regulator of cell	
Background Referen	2. Kur 3. Yan 4. Yan 5. Zhc 6. Ton 7. Mat 8. Cha 9. Reg 10. Coo 11. Ste 12. Oka 13. You 14. Kar 15. Lee 16. Har 17. Kim 18. Sha	A, J. et al. (1999) C bu, X. et al. (2007) hoda, T. et al. (2007) hoda, T. et al. (2007) assuura, A. et al. (19 an, E.Y. et al. (200 ggiori, F. and Klion dogno, P. and Meij phan, J.S. and He azaki, N. et al. (200 hada, Y. et al. (2007) a, T. et al. (2008) h, J. et al. (2011) N	(1998) Genomics Biochem Biophys Drocogene 18, 585 Proc Natl Acad 3 (4) Genes Dev 18 (297) Gene 192, 2 (7) J Biol Chem 2 (907) Gene 192, 2 (7) J Biol Chem 2 (907) Gene 192, 2 (7) J Biol Chem 2 (907) Gene 192, 2	 51, 76-85. <i>Res Commun</i> 246, 222 50-9. 5ci USA 104, 5842-7. 541-58. 245-50. 82, 25464-74. Eukaryot Cell 1, 11-21. ell Death Differ 12 Supp Autophagy 2, 146-8. b) Brain Res 85, 1-12. 9, 3888-900. 0, 1507-13. 560-5. 97-510. 32-41. Sci U S A 108, 4788-93 	ol 2, 1509-18.		

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

3/23/24, 10:46 AM Western Blot Buff	Phospho-ULK1 (Ser638) (D8K9O) Rabbit mAb (#14205) Datasheet Without Images Cell Signaling Technol 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
Cross-Reactivity	 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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