e at -20C	Phospho-ULK1 (Ser757) Antibody	HE .	Cell Signaling TECHNOLOGY®
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
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Annligations	Depativity	Consitivity	N // A/ /		
For Research Use Only. Not for Use in Diagnostic Procedures.					

Applications: WB	Reactivity: H M Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 140-150	Source: Rabbit	<b>UniProt ID:</b> #075385	Entrez-Gene Id: 8408
Product Usage Information		plication estern Blotting			<b>Dilution</b> 1:1000	
Storage		plied in 10 mM sodi C. Do not aliquot the		5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	glycerol. Store at –
Specificity / Sensiti		Phospho-ULK1 (Ser757) Antibody recognizes endogenous levels of ULK1 protein only when phosphorylated at Ser757 of mouse ULK1 (equivalent to Ser758 of human ULK1).				
Source / Purificatio	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser757 of mouse ULK1 protein (equivalent to Ser758 of human ULK1). Antibodies are purified by protein A and peptide affinity chromatography.			1 0	
Background	man exte dom The loca (5). and Atg1 (8), can auto activ Ser5	nmalian homologs of ension and growth (2 roles of ULK1 and lized to neuronal gr Yeast two-hybrid stu syntenin (6). Struct L/Apg1 (7). Knockdo a catabolic process act as a convergen ophagy-related (Atg) vated during low nur 555, and Ser777 (12	of the <i>C. elegans</i> ge 1-4). Both proteins a entral proline/serine ULK2 in axon grow owth cones and are udies found ULK1/2 ural similarity of UL own experiments us for the degradatior ce point for multiple proteins, regulatin trient conditions, dii 7, 18). Conversely,	ene unc-51 in which are widely expresse e rich domain and a th have been linked e involved in endocy e associated with me K1/2 has also been sing siRNA demonst of bulk cytoplasmic e signals that contro g phosphorylation s rectly phophorylates mTOR, which is a re	nd 2 (ULK1, ULK2), were mutants exhibited abno d and contain an amino- highly conserved carbox to studies showing that trosis of critical growth fa odulators of the endocyti recognized with the yea rated that ULK1 is essen c contents (9,10). It appel autophagy (11), and ca tates and protein traffick G ULK1 at multiple sites i egulator of cell growth an interaction between ULK:	rmal axonal -terminal kinase ky-terminal domain. the kinases are actors, such as NGF ic pathway, SynGAP, ast autophagy protein ntial for autophagy ears that Atg1/ULK1 an bind to several ting (12-16).~AMPK, ncluding Ser317, nd is an inhibitor of
Background Refere	2. Ki 3. Ya 4. Ya 5. Zi 6. To 7. M 8. C 9. R 10. C 11. Si 12. O 13. Yo 14. Ka 15. Le 16. H 17. Ki	gura, K. et al. $(1994)$ uroyanagi, H. et al. an, J. et al. $(1998)$ <i>B</i> an, J. et al. $(1999)$ <i>G</i> hou, X. et al. $(2007)$ omoda, T. et al. $(2007)$ omoda, T. et al. $(2007)$ latsuura, A. et al. $(1)$ han, E.Y. et al. $(2007)$ odogno, P. and Klior odogno, P. and Klior otopa, A.R. et al. $(2007)$ amada, Y. et al. $(2007)$ ara, T. et al. $(2007)$ ara, T. et al. $(2011)$ <i>N</i> gan, D.F. et al. $(2011)$	(1998) Genomics 5 Biochem Biophys R Drocogene 18, 5850 Proc Natl Acad Sc 04) Genes Dev 18, 997) Gene 192, 249 07) J Biol Chem 282 1980, D.J. (2002) Eu jer, A.J. (2005) Cell erman, P.K. (2006) J 000) Brain Res Mol 006) J Cell Sci 119, 000 J Cell Biol 150, 7) EMBO Rep 8, 360 J Cell Biol 181, 497 Nat Cell Biol 13, 132	1, 76-85. es Commun 246, 22 -9. <i>i USA</i> 104, 5842-7. 541-58. 5-50. 2, 25464-74. <i>ikaryot Cell</i> 1, 11-21 <i>Death Differ</i> 12 Sul Autophagy 2, 146-8 Brain Res 85, 1-12. 3888-900. 1507-13. 0-5. 7-510. 2-41.	L. ppl 2, 1509-18.	

**Species Reactivity** 

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

3/23/24, 11:22 AM Western Blot Buffer	Phospho-ULK1 (Ser757) Antibody (#6888) Datasheet Without Images Cell Signaling Technology 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 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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