

14205

Phospho-ULK1 (Ser638) (D8K9O) Rabbit mAh



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Applications: W	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 140-150	Source/Isotype: Rabbit IgG	UniProt ID: #O75385	Entrez-Gene Id: 8408
Product Usage Information	•	Application Western Blotting			Dilution 1:1000	
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.				
Specificity/Sensitivity		Phospho-ULK1 (Ser638) (D8K9O) Rabbit mAb recognizes endogenous levels of ULK1 protein only when phosphorylated at Ser638.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser638 of human ULK1 protein.				
Background		mammalian homolog extension and growth domain followed by a domain. The roles of kinases are localized factors, such as NGF endocytic pathway, Swith the yeast autoph that ULK1 is essential contents (9,10). It appropriately control autophagy (1 phosphorylation state is mediated by mTOR the interaction between	is of the <i>C. elegans</i> of (1-4). Both protein of central proline/ser ULK1 and ULK2 in a to neuronal growth (5). Yeast two-hybrid ynGAP, and syntenin agy protein Atg1/Alfor autophagy (8), pears that Atg1/ULK1), and can bind to see and protein traffic, which is a regulatoren ULK1 and AMPK	IC-51-like kinase 1 and 2 gene <i>unc-51</i> in which mess are widely expressed a ine rich domain and a hixon growth have been licones and are involved if studies found ULK1/2 and (6). Structural similarity pg1 (7). Knockdown explain act as a convergent actabolic process for the case of	utants exhibited ab and contain an amir ghly conserved car inked to studies sho in endocytosis of cr associated with mod y of ULK1/2 has also eriments using siRN he degradation of b nce point for multip ed (Atg) proteins, re cylation of ULK1 at S inhibitor of autopha PK is activated duri	normal axonal no-terminal kinase boxy-terminal wing that the itical growth dulators of the been recognized NA demonstrated ulk cytoplasmic le signals that gulating ser638 and Ser757 agy that disrupts ng low nutrient
Background References		1. Ogura, K. et al. (1994) <i>Genes Dev</i> 8, 2389-400. 2. Kuroyanagi, H. et al. (1998) <i>Genomics</i> 51, 76-85. 3. Yan, J. et al. (1998) <i>Biochem Biophys Res Commun</i> 246, 222-7. 4. Yan, J. et al. (1999) <i>Oncogene</i> 18, 5850-9. 5. Zhou, X. et al. (2007) <i>Proc Natl Acad Sci USA</i> 104, 5842-7. 6. Tomoda, T. et al. (2004) <i>Genes Dev</i> 18, 541-58. 7. Matsuura, A. et al. (1997) <i>Gene</i> 192, 245-50. 8. Chan, E.Y. et al. (2007) <i>J Biol Chem</i> 282, 25464-74. 9. Reggiori, F. and Klionsky, D.J. (2002) <i>Eukaryot Cell</i> 1, 11-21. 10. Codogno, P. and Meijer, A.J. (2005) <i>Cell Death Differ</i> 12 Suppl 2, 1509-18. 11. Stephan, J.S. and Herman, P.K. (2006) <i>Autophagy</i> 2, 146-8. 12. Okazaki, N. et al. (2000) <i>Brain Res Mol Brain Res</i> 85, 1-12. 13. Young, A.R. et al. (2006) <i>J Cell Sci</i> 119, 3888-900. 14. Kamada, Y. et al. (2000) <i>J Cell Biol</i> 150, 1507-13. 15. Lee, S.B. et al. (2007) <i>EMBO Rep</i> 8, 360-5. 16. Hara, T. et al. (2008) <i>J Cell Biol</i> 181, 497-510. 17. Kim, J. et al. (2011) <i>Nat Cell Biol</i> 13, 132-41.				

18. Shang, L. et al. (2011) Proc Natl Acad Sci U S A 108, 4788-93.

19. Egan, D.F. et al. (2011) *Science* 331, 456-61.

Western Blot Buffer 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 W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse Mk: Monkey

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