

Phospho-ULK1 (Ser317) (D2B6Y) Rabbit



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Applications: W	Reactivity: H M	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 (Ser317) (D2B6Y) Rabbit mAb recognizes endogenous levels of ULK1 protein only when phosphorylated at Ser317. This antibody also detects a protein of unknown origin at ~80 kDa in some cell lines.				
Species predicted to react based on 100% sequence homology		Rat, Monkey, Bovine,	Dog, Pig			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser317 of human ULK1 protein.				
Background		mammalian homolog extension and growth domain followed by a domain. The roles of kinases are localized t factors, such as NGF (endocytic pathway, Sy with the yeast autoph that ULK1 is essential contents (9,10). It app control autophagy (11 phosphorylation state directly phosphorylation mTOR, which is a regu	s of the <i>C. elegans</i> of (1-4). Both proteins central proline/seri JLK1 and ULK2 in a coneuronal growth 5). Yeast two-hybric (2007), and can bind to sears that Atg1/ULK1), and can bind to sea and protein traffices ULK1 at multiple ulator of cell growth	IC-51-like kinase 1 and 2 gene unc-51 in which must are widely expressed at the rich domain and a hit xon growth have been lit cones and are involved if studies found ULK1/2 at (6). Structural similarity pg1 (7). Knockdown expert a catabolic process for the catabolic process fo	utants exhibited ab and contain an amir ghly conserved carl nked to studies sho in endocytosis of cr associated with moo of ULK1/2 has also eriments using siRN ne degradation of be nee point for multip ad (Atg) proteins, re- tivated during low of ser555, and Ser777 ophagy, phosphory	normal axonal no-terminal kinase boxy-terminal wing that the vitical growth dulators of the been recognized NA demonstrated wilk cytoplasmic le signals that gulating nutrient conditions, (17,18). Conversely,
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) *EMBO Rep* 8, 360-5. 16. Hara, T. et al. (2008) J Cell Biol 181, 497-510. 17. Kim, J. et al. (2011) Nat Cell Biol 13, 132-41. 18. 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

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