2097

Phospho-ULK1 (Ser638) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 140-150	Source/Isotype: Rabbit	UniProt ID: #075385	Entrez-Gene Id: 8408	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM soc 20°C. Do not aliquot th), 150 mM NaCl, 100 μg/	ml BSA and 50% gl	ycerol. Store at –	
Specificity/Sensitivity		Phospho-ULK1 (Ser638) Antibody recognizes endogenous levels of ULK1 protein only when phosphorylated at Ser638.					
Species predicte based on 100% s homology		Monkey					
Source / Purifica	ation		dues surrounding S	munizing animals with a er638 of human ULK1 p raphy.			
Background		mammalian homologs extension and growth domain followed by a domain. The roles of L kinases are localized to factors, such as NGF (5 endocytic pathway, Sy with the yeast autopha that ULK1 is essential to contents (9,10). It apport control autophagy (11 phosphorylation state is mediated by mTOR, the interaction between	s of the <i>C. elegans</i> of (1-4). Both proteins central proline/serin JLK1 and ULK2 in ax o neuronal growth of 5). Yeast two-hybrid nGAP, and syntenin agy protein Atg1/Ag for autophagy (8), a ears that Atg1/ULK'), and can bind to si s and protein traffic which is a regulato en ULK1 and AMPK	C-51-like kinase 1 and 2 gene <i>unc-51</i> in which must are widely expressed a ne rich domain and a hist cones and are involved i studies found ULK1/2 a (6). Structural similarity og1 (7). Knockdown expe- catabolic process for th I can act as a convergene everal autophagy-relate ching (12-16).~Phosphor r of cell growth and an i (17,18). Conversely, AMI LK1 at multiple sites incl	utants exhibited abu nd contain an amin ghly conserved cark nked to studies sho n endocytosis of cr ssociated with moo of ULK1/2 has also eriments using siRN the degradation of b d (Atg) proteins, reg ylation of ULK1 at S nhibitor of autopha PK is activated durir	normal axonal o-terminal kinase poxy-terminal wing that the itical growth dulators of the been recognized IA demonstrated ulk cytoplasmic le signals that gulating ser638 and Ser757 agy that disrupts ng low nutrient	
Background Ref	ferences	4. Yan, J. et al. (1999) <i>C</i> 5. Zhou, X. et al. (2007) 6. Tomoda, T. et al. (20 7. Matsuura, A. et al. (20 8. Chan, E.Y. et al. (200 9. Reggiori, F. and Klio	(1998) Genomics 5 Riochem Biophys Re Droogene 18, 5850-9 Proc Natl Acad Sci 04) Genes Dev 18, 5 1997) Gene 192, 245 7) J Biol Chem 282, nsky, D.J. (2002) Eul leijer, A.J. (2003) Cell leijer, A.J. (2005) Cell leiman, P.K. (2006) J 2000) J Cell Sci 119, 3 2000) J Cell Biol 150, 7) EMBO Rep 8, 360 8) J Cell Biol 181, 497 11) Proc Natl Acad S Nat Cell Biol 13, 133	1, 76-85. <i>s Commun</i> 246, 222-7. 9. <i>USA</i> 104, 5842-7. 541-58. 5-50. 25464-74. <i>karyot Cell</i> 1, 11-21. <i>I Death Differ</i> 12 Suppl 2 <i>Autophagy</i> 2, 146-8. <i>Brain Res</i> 85, 1-12. 3888-900. 1507-13. 1507-13. 5-5. 7-510. 5 <i>ci U S A</i> 108, 4788-93. 2-41.	2, 1509-18.		

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