Phospho-ULK1 (Ser555) (D1H4) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 140-150	Source/Isotype: Rabbit IgG	UniProt ID: #075385	Entrez-Gene Id: 8408
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-ULK1 (Ser555) (D1H4) Rabbit mAb detects endogenous levels of ULK1 only when phosphorylated at Ser555 of mouse ULK1 (equivalent to Ser556 of human ULK1). Bands of unknown origin are detected between 90 and 100 kDa.				
Species predict based on 100% homology		Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser555 of mouse ULK1 protein (equivalent to Ser556 of human ULK1).				
Background		mammalian homologs extension and growth domain followed by a domain. The roles of L kinases are localized to factors, such as NGF (Sendocytic pathway, Sy with the yeast autophath ULK1 is essential contents (9,10). It appropriates autophagy (11 phosphorylation state)	s of the <i>C. elegans</i> (1-4). Both protein central proline/ser JLK1 and ULK2 in a oneuronal growth 5). Yeast two-hybric agy protein Atg1/A for autophagy (8), ears that Atg1/ULK), and can bind to s and protein traffinduced autophagy	IC-51-like kinase 1 and 2 gene unc-51 in which miss are widely expressed a fine rich domain and a his xon growth have been listones and are involved if studies found ULK1/2 and (6). Structural similarity pg1 (7). Knockdown expanate actabolic process for the canact as a convergence everal autophagy-related cking (12-16).~Phosphore, cell survival under conditions.	utants exhibited ab and contain an amir ghly conserved car inked to studies sho in endocytosis of cr associated with moo y of ULK1/2 has also eriments using siRN he degradation of b nce point for multip ed (Atg) proteins, re cylation of ULK1 by	normal axonal no-terminal kinase boxy-terminal wing that the ritical growth dulators of the been recognized NA demonstrated wilk cytoplasmic le signals that gulating AMPK at Ser555 is
Background References		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. (8. Chan, E.Y. et al. (200 9. Reggiori, F. and Klio	. (1998) Genomics ! Biochem Biophys Ro Droogene 18, 5850-) Proc Natl Acad Sc 104) Genes Dev 18, 1997) Gene 192, 24 17) J Biol Chem 282, nsky, D.J. (2002) Eu leijer, A.J. (2005) Ce lerman, P.K. (2006) 2000) Brain Res Mo 2006) J Cell Sci 119,	51, 76-85. es Commun 246, 222-7. 9. i USA 104, 5842-7. 541-58. 5-50. 25464-74. karyot Cell 1, 11-21. Il Death Differ 12 Suppl 2 Autophagy 2, 146-8. I Brain Res 85, 1-12. 3888-900.	2, 1509-18.	

16. Hara, T. et al. (2008) *J Cell Biol* 181, 497-510. 17. Egan, D.F. et al. (2011) *Science* 331, 456-61.

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 IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for

more information.

Limited UsesExcept as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's

terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.