37681

## Phospho-TFEB (Ser211) (E9S8N) Rabbit



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	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 70	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P19484	Entrez-Gene Id: 7942
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000	
Storage				ö), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	/ml BSA, 50% glycer	ol and less than
Specificity/Sen	sitivity	Phospho-TFEB (Ser21 phosphorylated at Ser		Ab recognizes endogen	ous levels of TFEB p	rotein only when
Source / Purific	cation			nunizing animals with a s er211 of human TFEB pi		peptide
Background		transcription factors t Lysosomal Expression regulatory sequences resulting in the upreg regulation of autopha translocation to the m microphthalmia trans and lysosomes (3-5). F rapamycin (mTOR) con translocation of TFEB conditions, TFEB is ph promotes association mTORC1 results in a la transport of TFEB to th TFEB has also been sh TFEB is phosphorylate	hat drives the expre- and Regulation (Cl within the CLEAR b ulated expression o gy (1,2). TFEB is act ucleus where it forr cription factor (MiT Recently, it has beer mplex 1 (mTORC1), in response to cellu osphorylated at Ser of TFEB with 14-3-3 oss of TFEB bhosph- ne nucleus where it own to be activated at Ser142 by Erk2	er of the Myc-related, bH ession of a network of ge- LEAR) network (1,2). TFEI ox (GTCACGTGAC) of lys of genes involved in lyso- ivated in response to nu ns homo- or heterooligo F) subfamily and resultir n shown that TFEB is a co- which regulates the pho- lar starvation and stress '211 in an mTORC1-depe- family proteins and ret- orylation, dissociation or increases transcription d in a nutrient-depender to that pathways other the	enes known as the C 3 specifically recogn osomal and autoph some biogenesis an trient deprivation, s mers with other me og in upregulation o proponent of mamm sphorylation and nu s (6-9). During norm endent manner. Pho ention in the cytoso f the TFEB/14-3-3 co of CLEAR and autop nt manner by p42 M deprivation, resulti	Coordinated izes and binds agy genes, d function, and stimulating embers of the f autophagosomes nalian target of uclear al growth sphorylation I. Inhibition of mplex, and rapid hagy genes (10). AP kinase (Erk2). ng in nuclear
Background Re	eferences	1. Sardiello, M. et al. (2 2. Sardiello, M. and Ba 3. Settembre, C. et al. 4. David, R. (2011) <i>Nat</i> 5. Cuervo, A.M. (2011) 6. Peña-Llopis, S. et al 7. Settembre, C. and E 8. Peña-Llopis, S. and 9. Settembre, C. et al. 10. Martina, J.A. et al.	Illabio, A. (2009) <i>Ce</i> , (2011) <i>Science</i> 332, <i>Rev Mol Cell Biol</i> 1. <i>Science</i> 332, 1392- (2011) <i>EMBO J</i> 30, Ballabio, A. (2011) <i>A</i> , Brugarolas, J. (2011) (2012) <i>EMBO J</i> 31, 1	<i>ll Cycle</i> 8, 4021-2. 1429-33. 2, 404. 3. 3242-58. <i>utophagy</i> 7, 1379-81. ) <i>Cell Cycle</i> 10, 3987-8. 095-108.		
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer			membrane with diluted with gentle shaking, ove		1 5% w/v nonfat
Applications K	ey	W: Western Blotting				
Cross-Reactivit	у Кеу	H: Human				

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 Uses	Except 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 purpose, 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 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.