37681

Phospho-TFEB (Ser211) (E9S8N) Rabbit



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #P19484	Entrez-Gene Id: 7942
Product Usage Information		Application 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				

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