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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 140-150	Source/Isotype: Rabbit	UniProt ID: #Q8TEV9	Entrez-Gene Id: 140775	
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sensitivity		SMCR8 Antibody recognizes endogenous levels of total SMCR8 protein. A band of unknown origin is detected at around 70 kDa.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala540 of human SMCR8 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		SMCR8 (Smith-Magen (differentially express intracellular membrar <i>SMCR8</i> gene was four (2,3). SMCR8 interacts WDR41, that function Interestingly, C9orf72 sclerosis (ALS) and fro multifaceted roles in a by kinases with roles i C9orf72, SMCR8, and V Furthermore, SMCR8 of and maturation of aut autoimmune phenoty decreased lysosomal b	is chromosome reg ed in normal and n ne trafficking as gua nd in patients havin with another DENN as a guanine excha is also associated w ntotemporal deme autophagy and lyso n autophagy incluc WDR41 associates w was found in an RN cophagosomes (9). pes as well as inhib piogenesis (10-13).	ion 8) was characterized eoplastic cells) domain fa anine exchange factors f g Smith-Magenis syndro V protein C9orf72, and th nge factor for Rab8a and vith neurodegenerative ntia (FTD) (5,6). C9orf72 somal signaling (reviewe ling TBK1 and ULK1 (4). I with the ULK1 complex e Ai screen as a regulator Knockdown of SMCR8 <i>in</i> ition of autophagy, eleva	as a member of the amily that typically for rab GTPases (1). me, a rare developme WD repeat contai d Rab39b and regul diseases including a and SMCR8 were for ed 7). SMCR8 can be indeed, the complex ssential for initiatio of ULK1 activity and vivo has led to infla ated activity of mTO	e DENN function in Deletion of the mental disorder ining protein ate autophagy (4). amyotrophic lateral und to have phosphorylated containing n of autophagy (8). I both initiation immatory and RC1 and Akt, and	
Background R	eferences	1. Zhang, D. et al. (201 2. Smith, A.C. et al. (19 3. Greenberg, F. et al. 4. Sellier, C. et al. (2016 5. DeJesus-Hernandez 6. Renton, A.E. et al. (2 7. Jung, J. and Behrenc 8. Sullivan, P.M. et al. (2 9. Jung, J. et al. (2017) 10. Yang, M. et al. (201 11. Zhang, Y. et al. (2019) 13. McAlpine, W. et al.	2) Front Genet 3, 2 (1991) Am J Med Gene (1991) Am J Hum G (1991) Am J Hum G (1991) Am J Hum G (1991) Acta State (2011) Neuron 72, 25 ds, C. (2017) Small (2 2016) Acta Neurop Elife 6, pii: e23063. (10) Sci Adv 2, e1601 (18) Genes Dev 32, 9 (2018) Proc Natl Acta (2018) Proc Natl Acta	83. enet 49, 1207-18. 97. euron 72, 245-56. 57-68. GTPases, 1-9. athol Commun 4, 51. doi: 10.7554/eLife.23063 167. 929-43. I-85. cad Sci U S A 115, E11523	3. 3-31.		
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20	ern blots, incubate at 4°C with gentle s	membrane with diluted shaking, overnight.	primary antibody ir	n 5% w/v BSA, 1X	
Applications K	ey	W: Western Blotting I	P: Immunoprecipita	ation			
Cross-Reactivi	ty Key	H: Human M: Mouse I	R: Rat				

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