

:14949

TBC1D7 (D8K1Y) 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

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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit IgG	UniProt ID: #Q9P0N9	Entrez-Gene Id: 51256
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50	
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		TBC1D7 (D8K1Y) Rabbit mAb recognizes endogenous levels of total TBC1D7 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human TBC1D7 protein.				
Background TBC1 domain family member 7 (TBC1D7, TBC7) belongs to a family of TBC (Tre-2/Bu containing proteins that function as GTPase-activating proteins (GAPs) (1,2). TBC1D identified as a novel binding protein within the TSC1-TSC2 complex, where it was th with TSC1 (3,4). Additional research indicates that TBC1D7 is a third subunit of the T that possesses Rheb-GAP activity and signals upstream of mTORC1 (5). Knockdown the association between TSC1 and TSC2, resulting in reduced Rheb-GAP activity and signaling (5). Mutations in the corresponding TBC1D7 gene result in increased mTO delayed autophagy, and are associated with intellectual disability (ID) and macrocra					was initially ought to associate C1-TSC2 complex of TBC1D7 limits increased mTORC1 RC1 signaling,	
Background Re	eferences	1. Pan, X. et al. (2006) <i>Nature</i> 442, 303-6. 2. Fukuda, M. (2011) <i>Biosci Rep</i> 31, 159-68. 3. Nakashima, A. et al. (2007) <i>Biochem Biophys Res Commun</i> 361, 218-23. 4. Sato, N. et al. (2010) <i>Genes Chromosomes Cancer</i> 49, 353-67. 5. Dibble, C.C. et al. (2012) <i>Mol Cell</i> 47, 535-46. 6. Capo-Chichi, J.M. et al. (2013) <i>J Med Genet</i> 50, 740-4. 7. Alfaiz, A.A. et al. (2014) <i>Hum Mutat</i> 35, 447-51.				

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

 $\textbf{W:} \ \textbf{Western Blotting IP:} \ \textbf{Immunoprecipitation}$

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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