TORC1/CRTC1 (C71D11) Rabbit mAb



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Applications: Reactiv		MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #Q6UUV9	Entrez-Gene Id 23373	
Product Usage Information	Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity	TORC1/CRTC1 (C71D1	(C71D11) Rabbit mAb recognizes endogenous levels of total TORC1 (CRTC1) protein.				
Species predicted to rea based on 100% sequend homology						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val463 of human TORC1 (CRTC1) protein.				
Background	during feeding stimu Feeding also stimulat induces insulin releas transcription likely pla (CREB-regulated trans as a CREB co-activato quiescent cells, CRTC via an interaction witl CRTC2/TORC2 and its nucleus to promote C	late insulin release tes release of gut ho se, inhibits glucagor ays a role in both gl scription coactivato r (2,3) and is implica 2/TORC2 is phospho n 14-3-3 proteins. G dissociation from 1 REB-dependent tra	mones and cellular ener from pancreatic β-cells to prmones such as glucagon release and promotes of ucose sensing and GLP- r 2)/TORC2 (transducer of ated in mediating the efforylated at Ser171 and bollucose and gut hormoned 4-3-3 proteins. Dephosp nscription. CRTC2/TORC in in response to hormoned	through a glucose son-like peptide-1 (Gβ-cell viability. CREE 1 signaling (1). The of regulated CREB affects of these two pecomes sequesteres lead to the dephohorylated CRTC2/T 2 plays a key role in	ensing pathway. LP-1), which furthe dependent protein CRTC2 activity 2) functions athways (4). In a in the cytoplasm osphorylation of ORC2 enters the the regulation of	
	CRTC1/TORC1, CRTC2 dependent transcript at Ser151 in mouse h cAMP or a calcium ac	CRTC2/TORC2-related proteins CRTC1/TORC1 and CRTC3/TORC3 also act as CREB co-activators (2,3). CRTC1/TORC1, CRTC2/TORC2 and CRTC3/TORC3 associate with the HTLV Tax protein to promote Tax-dependent transcription of HTLV-1 long terminal repeats (6,7). CRTC1/TORC1 is highly phosphorylated at Ser151 in mouse hypothalamic cells under basal conditions (8). When these cells are exposed to cAMP or a calcium activator, CRTC1/TORC1 is dephosphorylated and translocates into the nucleus (8). CRTC1/TORC1 is essential for energy balance and fertility (8).				
Background References	2. Conkright, M.D. et a 3. Iourgenko, V. et al. 4. Screaton, R.A. et al. 5. Koo, S.H. et al. (200	2004) <i>J Physiol</i> 558, 369-80. t al. (2003) <i>Mol Cell</i> 12, 413-23. l. (2003) <i>Proc Natl Acad Sci U S A</i> 100, 12147-52. al. (2004) <i>Cell</i> 119, 61-74. 105) <i>Nature</i> 437, 1109-11. 04) <i>J Biol Chem</i> 279, 52978-83. 6) <i>J Virol</i> 80, 7052-9. . (2008) <i>Nat Med</i> 14, 1112-7.				

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

Cross-Reactivity Key M: Mouse R: Rat

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