at -	TORC1/CRTC1 Antibody		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
)1		Support:	877-678-TECH (8324)	
#2501		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Mas	ssachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 78	Source: Rabbit	UniProt ID: #Q6UUV9	Entrez-Gene Id: 23373	
Product Usage Information	•	plication estern Blotting			Dilution 1:1000		
Storage	•	plied in 10 mM sodi C. Do not aliquot the		5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	lycerol. Store at –	
Specificity / Sensitivity		TORC1/CRTC1 Antibody recognizes endogenous levels of total TORC1 (CRTC1) protein. This antibody does not cross-react with TORC2 and TORC3 proteins.					
Species predicted react based on 100 sequence homolog)%	nan					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly296 of human TORC1 (CRTC1) protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	duri Fee indu tran (CR as a quie via a CRT nucl	ng feeding stimulates ding also stimulates uces insulin release, scription likely plays EB-regulated transc a CREB co-activator escent cells, CRTC2 an interaction with 1 TC2/TORC2 and its leus to promote CRE	e insulin release fro release of gut horn inhibits glucagon r a role in both gluc cription coactivator (2,3) and is implica /TORC2 is phosphi 4-3-3 proteins. Glu dissociation from 1 EB-dependent trans	m pancreatic β-cells mones such as gluc elease and promote ose sensing and GL 2)/TORC2 (transduc ated in mediating the orylated at Ser171 a cose and gut hormo 4-3-3 proteins. Dep scription. CRTC2/TC	hergy status. Elevations s through a glucose sens agon-like peptide-1 (GLI es β-cell viability. CREB- .P-1 signaling (1). The p cer of regulated CREB a e effects of these two pa and becomes sequestere ones lead to the dephosp hosphorylated CRTC2/T DRC2 plays a key role in onal and energy signals	sing pathway. P-1), which further dependent rotein CRTC2 ctivity 2) functions thways (4). In ed in the cytoplasm ohorylation of ORC2 enters the the regulation of	
	CRT dep Ser: a ca	IC1/TORC1, CRTC2 endent transcription 151 in mouse hypotl	2/TORC2 and CRT of HTLV-1 long ter halamic cells under IC1/TORC1 is dep	C3/TORC3 associa minal repeats (6,7). basal conditions (8 hosphorylated and t	TORC3 also act as CRE te with the HTLV Tax pro CRTC1/TORC1 is highl). When these cells are ranslocates into the nuc	tein to promote Tax- y phosphorylated at exposed to cAMP or	
Background Refer	2. C 3. lc 4. S 5. K 6. K 7. S	inke, S.A. et al. (200 conkright, M.D. et al. burgenko, V. et al. (2 creaton, R.A. et al. (2 oo, S.H. et al. (2005 oga, H. et al. (2004) iu, Y.T. et al. (2006) Itarejos, J.Y. et al. (2	(2003) Mol Cell 12 003) Proc Natl Aca (2004) Cell 119, 61 5) Nature 437, 1109 J Biol Chem 279, J Virol 80, 7052-9.	2, 413-23. <i>Id Sci U S A</i> 100, 12 -74. 9-11. 52978-83.	2147-52.		

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

1/1/24, 7:53 AM	TORC1/CRTC1 Antibody (#2501) Datasheet Without Images Cell Signaling Technology 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	WB: Western Blotting		
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected		
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