Revision 3			
4E-BP2 Antibody	Се	Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#2845	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Mass	achusetts 01923 USA	

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Applications: W, IP, IHC-P	Reactivity: H M R Mk B	Sensitivity: Endogenous	MW (kDa): 15 to 20	Source/Isotype: Rabbit	UniProt ID: #Q13542	Entrez-Gene Io 1979		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)		Dilution 1:1000 1:100 1:200 - 1:800				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliguot the antibody.						
Specificity/Sensitivity		4E-BP2 Antibody detects endogenous levels of total 4E-BP2, independent of phosphorylation. This antibody does not cross-react significantly with 4E-BP1.						
			odies are produced by immunizing animals with a synthetic peptide corresponding to carboxy-terminus of human 4E-BP2. Antibodies are purified by protein A and peptide tography.					
Background		binding to the transla interaction and result and FRAP/mTOR kina <i>vivo</i> (4). While phosp BP1 to eIF4E, it is tho 4E-BP2 and 4E-BP3 sl FRAP/mTOR-depende	ation initiation factor ts in activation of cap ise regulate 4E-BP1 a horylation by FRAP/T ught to prime 4E-BP hare high sequence ent phosphorylation similar manner to th	o known as PHAS-1) inhi r eIF4E. Hyperphosphor o-dependent translation activity (2,3). Multiple 4E nTOR at Thr37 and Thr4 1 for subsequent phosp homology with 4E-BP1, sites. Preliminary data s hat of 4E-BP1, although	ylation of 4È-BP1 di (1). Both the PI3 ki -BP1 residues are p 6 does not prevent horylation at Ser65 including conserva suggests that phos	srupts this inase/Akt pathway shosphorylated <i>in</i> the binding of 4E- 5 and Thr70 (5). tion of the major ohorylation of 4E-		
Background Re	eferences	1. Pause, A. et al. (199 2. Brunn, G.J. et al. (1 3. Gingras, A.C. et al. 4. Fadden, P. et al. (19 5. Gingras, A.C. et al. 6. Lin, T.A. and Lawre	997) Science 277, 99 (1998) Genes Dev 12 997) J Biol Chem 272 (1999) Genes Dev 13	-101. 2, 502-13. . 10240-7.	0204.			
Species Reactiv	vity	Species reactivity is d	letermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	ern Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v BSA, 1X			
Applications K	ey	W: Western Blotting	IP: Immunoprecipita	tion IHC-P: Immunohis	tochemistry (Paraff	in)		
Cross-Reactivit	y Key	H: Human M: Mouse	R: Rat Mk: Monkey	B: Bovine				
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