

Phospho-4E-BP1 (Ser65) (D9G1Q) Rabbit



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Applications: W, W-S, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 15-20	Source/Isotype: Rabbit	UniProt ID: #Q13541	Entrez-Gene Id: 1978
Product Usage Information		Application			Dilution	
		Western Blotting			1:1000	
		Simple Western™			1:10 - 1:50	
		Immunoprecipitation			1:50	
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.				
		For a carrier free (BSA and azide free) version of this product see product #27899.				
Specificity/Sensitivity		Phospho-4E-BP1 (Ser65) (D9G1Q) Rabbit mAb recognizes endogenous levels of 4E-BP1 protein only when phosphorylated at Ser65.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser65 of human 4E-BP1 protein.				
Background		Translation repressor protein 4E-BP1 (also known as PHAS-1) inhibits cap-dependent translation by binding to the translation initiation factor eIF4E. Hyperphosphorylation of 4E-BP1 disrupts this interaction and results in activation of cap-dependent translation (1). Both the PI3 kinase/Akt pathway and FRAP/mTOR kinase regulate 4E-BP1 activity (2,3). Multiple 4E-BP1 residues are phosphorylated <i>in vivo</i> (4). While phosphorylation by FRAP/mTOR at Thr37 and Thr46 does not prevent the binding of 4E-BP1 to eIF4E, it is thought to prime 4E-BP1 for subsequent phosphorylation at Ser65 and Thr70 (5).				
Background References		 Pause, A. et al. (1994) Nature 371, 762-7. Brunn, G.J. et al. (1997) Science 277, 99-101. Gingras, A.C. et al. (1998) Genes Dev 12, 502-13. Fadden, P. et al. (1997) J Biol Chem 272, 10240-7. Gingras, A.C. et al. (1999) Genes Dev 13, 1422-37. 				
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed 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 W-S: Simple Western™ IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human Mk: Monkey				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				

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