43 Store at -20C

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



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Applications: WB, 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	We Sim	plication stern Blotting aple Western™ nunoprecipitation		Dilution 1:1000 1:10 - 1:50 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 / Sensi		spho-4E-BP1 (Ser6 n phosphorylated at	65) (D9G1Q) Rabbit mAb recognizes endogenous levels of 4E-BP1 protein only at Ser65.			
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser65 of human 4E-BP1 protein.				
Background	bind and FRA (4). '	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 Refe	1. Pause, A. et al. (1994) <i>Nature</i> 371, 762-7. 2. Brunn, G.J. et al. (1997) <i>Science</i> 277, 99-101. 3. Gingras, A.C. et al. (1998) <i>Genes Dev</i> 12, 502-13. 4. Fadden, P. et al. (1997) <i>J Biol Chem</i> 272, 10240-7. 5. Gingras, A.C. et al. (1999) <i>Genes Dev</i> 13, 1422-37.					

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

WB: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

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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