

Phospho-S6 Ribosomal Protein (Ser240/244) (61H9) Rabbit mAb (Biotinylated)



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Applications: W, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #P62753	Entrez-Gene Id: 6194		
Product Usage Information		Application Western Blotting Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:100			
Storage) mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium nobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sensitivity		Phospho-S6 Ribosomal Protein (Ser240/244) (61H9) Rabbit mAb (Biotinylated) detects endogenous levels of ribosomal protein S6 only when phosphorylated at Ser240 and Ser244.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser240 and Ser244 of human S6 ribosomal protein.						
Description		This Cell Signaling Technology (CST) antibody is conjugated to biotin under optimal conditions. The unconjugated Phospho-S6 Ribosomal Protein (Ser240/244) (61H9) Rabbit mAb #4838 reacts with human, mouse, rat and monkey phospho-S6 ribosomal protein (Ser240/244). CST expects that Phospho-S6 Ribosomal Protein (Ser240/244) (61H9) Rabbit mAb (Biotinylated) will also recognize phospho-S6 ribosomal protein (Ser240/244) in these species.						
Background		One way that growth factors and mitogens effectively promote sustained cell growth and proliferation is by upregulating mRNA translation (1,2). Growth factors and mitogens induce the activation of p70 S6 kinase and the subsequent phosphorylation of S6 ribosomal protein. Phosphorylation of S6 ribosomal protein correlates with an increase in translation of mRNA transcripts that contain an oligopyrimidine tract in their 5' untranslated regions (2). These particular mRNA transcripts (5'TOP) encode proteins involved in cell cycle progression, as well as ribosomal proteins and elongation factors necessary for translation (2,3). Important S6 ribosomal protein phosphorylation sites include several residues (Ser235, Ser236, Ser240, and Ser244) located within a small, carboxy-terminal region of S6 protein (4,5).						
Background R	eferences	1. Dufner, A. and Thomas, G. (1999) <i>Exp Cell Res</i> 253, 100-9. 2. Peterson, R.T. and Schreiber, S.L. (1998) <i>Curr Biol</i> 8, R248-50. 3. Jefferies, H.B. et al. (1997) <i>EMBO J</i> 16, 3693-704. 4. Ferrari, S. et al. (1991) <i>J Biol Chem</i> 266, 22770-5. 5. Flotow, H. and Thomas, G. (1992) <i>J Biol Chem</i> 267, 3074-8.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot I	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.				ז 5% w/v BSA, 1X		
Applications K	ley	W: Western Blotting FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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