3944

S6 Ribosomal Protein (54D2) Mouse mAb (Biotinylated)



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Applications: W, FC-FP	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Mouse IgG1	UniProt ID: #P62753	Entrez-Gene Id: 6194		
Product Usage Information		Application Western Blotting Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:50			
Storage		Supplied in 140 mM N phosphate monobasi						
Specificity/Sensitivity		S6 Ribosomal Protein (54D2) Mouse mAb (Biotinlyated) detects endogenous levels of total S6 ribosomal protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant fusion protein corresponding to full-length human S6 ribosomal protein.						
Description		This Cell Signaling Technology (CST) antibody is conjugated to biotin under optimal conditions and tested in-house by Western Blot and flow cytometric analysis. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated antibody (S6 Ribosomal Protein (54D2) Mouse mAb #2317).						
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	References	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 React	ivity	Species reactivity is de	etermined 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications	Key	W: Western Blotting FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactiv	Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey Dm: D. melanogaster							
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