Revision 1							
S6 Ribosomal Protein (54D2) Mouse mAb (Biotinylated)						Ell Signaling C H N O L O G Y [®] 877-616-CELL (2355)	
Stc					Orders:	orders@cellsignal.com	
4					Support:	877-678-TECH (8324)	
#3944					Web:	info@cellsignal.com cellsignal.com	
				3 Trask L	ane Danvers Ma	ssachusetts 01923 USA	
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Applications: WB, FC-FP H	Reactivity: I M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Mouse IgG1	UniProt ID: #P62753	Entrez-Gene Id: 6194	
Product Usage	Арг	olication				Dilution	
Information		Western Blotting				1:1000	
		w Cytometry (Fixed	d/Permeabilized)			1:50	
Storage	ge Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml B 50% glycerol. Store at –20°C. Do not aliquot the antibodies.						
Specificity / Sensiti		S6 Ribosomal Protein (54D2) Mouse mAb (Biotinlyated) detects endogenous levels of total S6 ribosomal protein.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a recombinant fusion protein corresponding to full-length human S6 ribosomal protein.					
Product Description	in-ho	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).					
MW (kDa)		32					
Background	upre and corre untra prog S6 ri	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 Refere	2. Pe 3. Je 4. Fe	 Dufner, A. and Thomas, G. (1999) <i>Exp Cell Res</i> 253, 100-9. Peterson, R.T. and Schreiber, S.L. (1998) <i>Curr Biol</i> 8, R248-50. Jefferies, H.B. et al. (1997) <i>EMBO J</i> 16, 3693-704. Ferrari, S. et al. (1991) <i>J Biol Chem</i> 266, 22770-5. Flotow, H. and Thomas, G. (1992) <i>J Biol Chem</i> 267, 3074-8. 					
Species Reactivity	Speci	es reactivity is det	ermined 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	WB:	Western Blotting F	-C-FP: Flow Cyto	ometry (Fixed/Permeabili	ized)		
Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. mel 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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