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Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP[®] Rabbit mAb (PE-Cy7[®] Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H M R Mk Mi Sc	Endogenous	Rabbit IgG	#P62753	6194

Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP [®] Rabbit mAb (PE-Cy7 [®] Conjugate) detects endogenous levels of ribosomal protein S6 only when phosphorylated at Ser235 and 236.	
Species predicted to react based on 100% sequence homology	Chicken, Pig	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser235 and Ser236 of human ribosomal protein S6.	
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin in combination with cyanine 7 (PE-Cy7 [®]) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP [®] Rabbit mAb #4858.	
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 References	<ol style="list-style-type: none"> 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	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink Sc: <i>S. cerevisiae</i>	
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