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## Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP<sup>®</sup> Rabbit mAb (PE Conjugate)



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Applications: Reactivity:   FC-FP H M R Mk Mi S	Sensitivity: c Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P62753	Entrez-Gene Id: 6194		
Product Usage Information	<b>Application</b> 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 antibodies. Protect from light. Do not freeze.				
Specificity/Sensitivity	Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP <sup>®</sup> Rabbit mAb (PE 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 of human ribosomal protein S6.					
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP <sup>®</sup> 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	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 Reactivity	Species reactivity is dete	rmined by testing in at le	ast one approved ap	plication (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: S. cerevisiae					
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