Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP[®] Rabbit mAb (Alexa Fluor[®] 700 Conjugate)



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

Applications: FC-FP	Reactivity: H M R Mk Mi Sc	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P62753	Entrez-Gene Id: 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 (Alexa Fluor [®] 700 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.				
in-house for direct flow cytometric analysis				onjugated to Alexa Fluor [®] 700 fluorescent dye and tested in human cells. This antibody is expected to exhibit the ugated Phospho-S6 Ribosomal Protein (Ser235/236)		
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.				

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: S. cerevisiae

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3. Jefferies, H.B. et al. (1997) *EMBO J* 16, 3693-704. 4. Ferrari, S. et al. (1991) *J Biol Chem* 266, 22770-5.

5. Flotow, H. and Thomas, G. (1992) J Biol Chem 267, 3074-8.

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