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

Applications: IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk Mi Sc	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P62753	Entrez-Gene Id: 6194		
Product Usage Information		<b>Application</b> Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)		<b>Dilution</b> 1:50 - 1:200 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/SensitivityPhospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E)detects endogenous levels of S6 ribosomal protein only							
Species predicte based on 100% s homology		Chicken, Pig					
Source / Purifica	<b>Source / Purification</b> Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser235 and Ser236 of human S6 ribosomal protein. The antibody was conjugated to Alexa Fluor <sup>®</sup> 488 under optimal conditions with an F/P ratio of 2-6.				6 ribosomal protein. The		
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent 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 Ref	erences	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 Reactivi	ity	Species reactivity is dete	rmined by testing in at le	ast one approved apj	blication (e.g., western blot).		
Applications Ke	у	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	v Key	H: Human M: Mouse R: Rat Mk: Monkey Mi: Mink Sc: S. cerevisiae					
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