Conjugate)

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S6 Ribosomal Protein (54D2) Mouse mAb (Alexa Fluor[®] 488

	activity: Sensitivity: Source/Isotype: R Mk Dm Endogenous Mouse IgG1	UniProt ID:Entrez-Gene Id:#P627536194
Product Usage Information	Application Immunofluorescence (Frozen)	Dilution 1:200 - 1:800
	Immunofluorescence (Immunocytochemistry)	1:200 - 1:800
	Flow Cytometry (Fixed/Permeabilized)	1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide a antibody. Protect from light. Do not freeze.	and 2 mg/ml BSA. Store at 4°C. Do not aliquot the
Specificity / Sensitivity	 S6 Ribosomal Protein (54D2) Mouse mAb (Alexa Fluor[®] total S6 ribosomal protein independent of phosphorylatio 	
Source / Purification	Monoclonal antibody is produced by immunizing animals to full-length human S6 ribosomal protein.	with a recombinant fusion protein corresponding
Product Description	This Cell Signaling Technology antibody is conjugated to house for direct flow cytometry and immunofluorescent a to exhibit the same species cross-reactivity as the uncong#2317.	analysis in human cells. The antibody is expected
Background	One way that growth factors and mitogens effectively pro upregulating mRNA translation (1,2). Growth factors and and the subsequent phosphorylation of S6 ribosomal pro correlates with an increase in translation of mRNA transcr untranslated regions (2). These particular mRNA transcri progression, as well as ribosomal proteins and elongation S6 ribosomal protein phosphorylation sites include sever located within a small, carboxy-terminal region of S6 prot	mitogens induce the activation of p70 S6 kinase otein. Phosphorylation of S6 ribosomal protein cripts that contain an oligopyrimidine tract in their 5' ipts (5'TOP) encode proteins involved in cell cycle n factors necessary for translation (2,3). Important ral residues (Ser235, Ser236, Ser240, and Ser244)
Background Reference	 Dufner, A. and Thomas, G. (1999) <i>Exp Cell Res</i> 253, 1 Peterson, R.T. and Schreiber, S.L. (1998) <i>Curr Biol</i> 8, I 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, 30 	R248-50.
Species Reactivity	Species reactivity is determined by testing in at least one	approved application (e.g., western blot).
Applications Key	IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluores FC-FP: Flow Cytometry (Fixed/Permeabilized)	scence (Immunocytochemistry)
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir. X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S GP: Guinea Pig Rab: rabbit All: all species expected 	-
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