Phospho-S6 Ribosomal Protein (Ser235/236) (2F9) Rabbit mAb



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

Applications: WB, IF-IC, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #P62753	Entrez-Gene Id: 6194	
Product Usage Information	Ap	plication				Dilution	
	We	estern Blotting				1:1000	
	Im	Immunofluorescence (Immunocytochemistry)				1:100	
	Flo	Flow Cytometry (Fixed/Permeabilized)				1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #99457.					
Specificity / Sensitiv	,	Phospho-S6 Ribosomal Protein (Ser235/236) (2F9) Rabbit mAb detects endogen protein S6 only when phosphorylated at serine 235 and 236.				levels of ribosomal	
Source / Purification	•	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide correspon residues surrounding Ser235 and Ser236 of human ribosomal protein S6.					
Background	upro and corr untr pro S6	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 Refere	2. P 3. J 4. F 5. F	 Dufner, A. and Thomas, G. (1999) Exp Cell Res 253, 100-9. Peterson, R.T. and Schreiber, S.L. (1998) Curr Biol 8, R248-50. Jefferies, H.B. et al. (1997) EMBO J 16, 3693-704. Ferrari, S. et al. (1991) J Biol Chem 266, 22770-5. Flotow, H. and Thomas, G. (1992) J Biol Chem 267, 3074-8. Kotecha, N. et al. (2008) Cancer Cell 14, 335-43. 					

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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