

Phospho-S6 Ribosomal Protein (Ser235/236) (E2R1O) Mouse mAb



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

Applications: W, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Mouse IgG2b	UniProt ID: #P62753	Entrez-Gene Id: 6194		
Product Usage Information		Application Western Blotting Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:400		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less th 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				rol and less than		
Specificity/Sensitivity		Phospho-S6 Ribosomal Protein (Ser235/236) (E2R1O) Mouse mAb detects endogenous levels of S6 ribosomal protein only when phosphorylated at Ser235 and Ser236.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser235 and Ser236 of human S6 ribosomal protein.						
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 Ro	eferences	1. Dufner, A. and Thor 2. Peterson, R.T. and S 3. Jefferies, H.B. et al. 4. Ferrari, S. et al. (199 5. Flotow, H. and Thor	5chreiber, S.L. (1998) (1997) <i>EMBO J</i> 16, 3 91) <i>J Biol Chem</i> 266,) <i>Curr Biol</i> 8, R248-50. 693-704. 22770-5.				
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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