

S6 Ribosomal Protein (5G10) Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #P62753	Entrez-Gene Id: 6194
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		S6 Ribosomal Protein (5G10) Rabbit mAb (Biotinylated) recognizes endogenous levels of total S6 ribosomal protein independent of phosphorylation.				
Species predicted to react based on 100% sequence homology		Pig				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues of human S6 ribosomal protein.				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated S6 Ribosomal Protein (5G10) Rabbit mAb #2217.				
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		 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. 				
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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