S6 Ribosomal Protein (5G10) Rabbit mAb



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Applications: W, W-S, IHC-P, IF-F, IF-IC	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			Dilution		
		Western Blotting			1:1000		
		Simple Western™				0 - 1:50	
		Immunohistochemis	• •			0 - 1:200	
		Immunofluorescence	•			00 - 1:400	
		Immunofluorescence	e (Immunocytochem	istry)	1:1	00 - 1:400	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
		For a carrier free (BSA	A and azide free) ver	sion of this product see	product #50570.		
Specificity/Sensitivity		S6 Ribosomal Protein (5G10) Rabbit Monoclonal Antibody detects endogenous levels of total S6 ribosomal protein independent of phosphorylation.					
Species predicte based on 100% s homology	d to react sequence	Pig					
Source / Purifica		onal antibody is produced by immunizing animals with a synthetic peptide corresponding to s 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 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 Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Bu	ffer	IMPORTANT: For western blots, incubate membrane with diluted prin TBS, 0.1% Tween \circledR 20 at 4° C with gentle shaking, overnight.				n 5% w/v BSA, 1X	
Applications Key	/		W: Western Blotting W-S: Simple Western [™] IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity		H: Human M: Mouse					

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