

Phospho-S6 Ribosomal Protein (Ser240/244) (D68F8) XP[®] Rabbit mAb



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Applications: V, W-S, IHC-P, 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		Application			Dilution 1:1000		
		Western Blotting Simple Western™			1:10 - 1:50		
		Immunohistochemist	ry (Paraffin)	1:500 - 1:2000			
		Immunofluorescence	-	istry)	1:800		
		Flow Cytometry (Fixed		istry)		,) - 1:1600	
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	and azide free) ver	sion of this product see	product #35708.		
Specificity/Sensitivity		Phospho-S6 Ribosomal Protein (Ser240/244) (D68F8) XP $^{ extsf{8}}$ Rabbit mAb detects endogenous levels of ribosomal protein S6 only when phosphorylated at Ser240 and Ser244.					
Species predicted based on 100% se homology	to react quence	Chicken, Pig					
Source / Purificat	ce / Purification Monoclonal antibody is produced by immunizing animals with corresponding to residues surrounding Ser240 and Ser244 of h						
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		1. Dufner, A. and Thomas, G. (1999) <i>Exp Cell Res</i> 253, 100-9. 2. Peterson, R.T. and Schreiber, S.L. (1998) <i>Curr Biol</i> 8, R248-50. 3. Jefferies, H.B. et al. (1997) <i>EMBO J</i> 16, 3693-704. 4. Ferrari, S. et al. (1991) <i>J Biol Chem</i> 266, 22770-5. 5. Flotow, H. and Thomas, G. (1992) <i>J Biol Chem</i> 267, 3074-8.					
Species Reactivity	/	Species reactivity is d	etermined by testing	g in at least one approve	d 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.					
			5	haking, overnight.		1 5 70 107 0 05A, 1A	
Applications Key				shaking, overnight. ™ IHC-P: Immunohistoc istry) FC-FP: Flow Cytom		IF-IC:	
Applications Key Cross-Reactivity P	(ey		(Immunocytochem	™ IHC-P: Immunohistoc		IF-IC:	
	-	Immunofluorescence H: Human M: Mouse	(Immunocytochem R: Rat Mk: Monkey	™ IHC-P: Immunohistoc	etry (Fixed/Permea	IF-IC:	

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