Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP® Rabbit mAb



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	Reactivity: M R Mk Mi Sc	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #P62753	Entrez-Gene Id 6194	
Product Usage	Арр	Application				Dilution	
Information	Wes	Western Blotting				1:2000	
	Sim	ple Western™			1:1	0 - 1:50	
	Imm	Immunohistochemistry (Paraffin)				1:200 - 1:800	
	Imm	Immunofluorescence (Frozen)				1:50 - 1:100	
	Imm	Immunofluorescence (Immunocytochemistry)				1:50 - 1:200	
	Flov	Flow Cytometry (Fixed/Permeabilized)				1:50 - 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 a	For a carrier free (BSA and azide free) version of this product see product #81736.					
Specificity / Sensitiv	ribos islets	omal protein S6 o	mal Protein (Ser235/236) (D57.2.2E) XP $^{\otimes}$ Rabbit mAb detects endogenous levels of only when phosphorylated at Ser235 and 236. Non-specific labeling in pancreatic rved by immunofluorescence in fixed frozen mouse tissue post-processed with λ				
Species predicted to react based on 100% sequence homology	б	ken, Pig					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser235 and Ser236 of human ribosomal protein S6.					
Background	upreç and t corre untra progr S6 ril	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 Referer	 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 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

1/1/24. 1:28 PM

Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP® Rabbit mAb (#4858) Datasheet Without Imag...

WB: Western Blotting W-S: Simple Western™ IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) 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 Dq: doq Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

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

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