

p70 S6 Kinase Substrates Antibody Sampler Kit



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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-S6 Ribosomal Protein (Ser235/236) (D57.2.2E) XP [®] Rabbit mAb	4858	20 µl	32 kDa	Rabbit IgG
Phospho-S6 Ribosomal Protein (Ser240/244) (D68F8) XP [®] Rabbit mAb	5364	20 µl	32 kDa	Rabbit IgG
Phospho-eIF4B (Ser422) Antibody	3591	20 µl	80 kDa	Rabbit
Phospho-eEF2k (Ser366) Antibody	3691	20 µl	105 kDa	Rabbit
Phospho-p70 S6 Kinase (Thr389) (108D2) Rabbit mAb	9234	20 µl	70, 85 kDa	Rabbit IgG
p70 S6 Kinase (49D7) Rabbit mAb	2708	20 µl	70, 85 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The p70 S6 Kinase Substrates Antibody Sampler Kit provides a fast and economical means of evaluating several substrates of p70 S6 Kinase. The kit contains enough primary and secondary antibody to perform two Western blot experiments.
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.
Background	p70 S6 kinase is a mitogen activated Ser/Thr protein kinase that is required for cell growth and G1 cell cycle progression (1,2). p70 S6 kinase phosphorylates the S6 protein of the 40S ribosomal subunit and is involved in translational control of 5' oligopyrimidine tract mRNAs (1). Important S6 ribosomal protein phosphorylation sites include several residues (Ser235, Ser236, Ser240, Ser244) located within a small, carboxy-terminal region of the S6 protein (3,4). p70 S6 kinase has been shown to phosphorylate eIF4B at the rapamycin-sensitive site Ser422 <i>in vivo</i> , and a Ser422Ala mutant of eIF4B shows diminished activity in an <i>in vitro</i> translation assay (5). Phosphorylation of eEF2K by p70 S6 kinase and p90RSK leads to inactivation of eEF2K (6), facilitating the dephosphorylation of eEF2 and thus promoting translation.
Background References	1. Pullen, N. and Thomas, G. (1997) <i>FEBS Lett</i> 410, 78-82. 2. Dufner, A. and Thomas, G. (1999) <i>Exp Cell Res</i> 253, 100-9. 3. Ferrari, S. et al. (1991) <i>J Biol Chem</i> 266, 22770-5. 4. Flotow, H. and Thomas, G. (1992) <i>J Biol Chem</i> 267, 3074-8. 5. Raught, B. et al. (2004) <i>EMBO J</i> 23, 1761-9. 6. Wang, X. et al. (2001) <i>EMBO J</i> 20, 4370-9.
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