Phospho-S6 Ribosomal Protein (Ser240/244) Antibody Orders: 877-616-CELL (2355) orders@cellsignal.com



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|----------|---------------------------------------|
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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: WB, IP | Reactivity: H M R Mk Z | Sensitivity: Endogenous | MW (kDa): 32 | Source: Rabbit | UniProt ID: #P62753 | Entrez-Gene Id: 6194 | | |
|---|---|---|------------------------|-------------------|-----------------------------------|-------------------------|--|--|
| Product Usage Information | We | plication stern Blotting nunoprecipitation | | | Dilution 1:1000 1:50 | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | | | |
| Specificity / Sensi | only | Phospho-S6 Ribosomal Protein (Ser240/244) Antibody detects endogenous levels of ribosomal protein S6 only when phosphorylated at serines 240 and 244. This antibody does not detect S6 ribosomal protein phosphorylated at other sites. | | | | | | |
| Species predicted react based on 10 sequence homolo | 0% | sken, Xenopus | | | | | | |
| Source / Purificati | to re | Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser240 and Ser244 of human S6 ribosomal protein. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | | |
| Background | upre and corru untra prog S6 r | 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 Refe | 2. Pe 3. Je 4. Fe | Dufner, A. and Thomas, G. (1999) <i>Exp Cell Res</i> 253, 100-9. Peterson, R.T. and Schreiber, S.L. (1998) <i>Curr Biol</i> 8, R248-50. Jefferies, H.B. et al. (1997) <i>EMBO J</i> 16, 3693-704. Ferrari, S. et al. (1991) <i>J Biol Chem</i> 266, 22770-5. Flotow, H. and Thomas, G. (1992) <i>J Biol Chem</i> 267, 3074-8. | | | | | | |
| Species Reactivity | y Spec | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | | | |
| Western Blot Buff | | 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 | WB: | WB: Western Blotting IP: Immunoprecipitation | | | | | | |
| Cross-Reactivity F | X: Xe | 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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected | | | | | | |
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Limited Uses

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