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Product datasheet for TA389029

Phospho-S6K (pSer398) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	**WB**: 1:1000
Reactivity:	Drosophila
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr398 of Drosophila p70 S6K protein, conjugated to keyhole limpet hemocyanin (KLH).
Specificity:	Specific for endogenous levels of the ~70 kDa p70 S6K protein phosphorylated at Thr398. Immunolabeling is blocked by preadsorption with the Immunolabeling is blocked by preadsorption with the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Concentration:	lot specific
Purification:	Antigen Affinity Purified from Pooled Serum
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	70

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Background: p70 S6 kinase (p70 S6K) is activated in a signaling pathway that includes mTOR and is a mitogen-activated Ser/Thr protein kinase that is required for cell growth and G1 cell cycle progression (Xio et al., 2009). p70 S6K is controlled by multiple phosphorylation events located within the catalytic, linker and pseudosubstrate domains and subsequently phosphorylates specifically ribosomal protein S6 (Saitoh et al., 2002). Phosphorylation of Thr-229 in the catalytic domain and Thr-389 in the linker domain are most critical for kinase function. Inhibition of p70 activity inhibits the entry into S phase of the cell cycle and exhibits cell cycle arrest at G0/G1 phase, suggesting that the activation of p70 S6k plays an obligatory role in mediating mitogenic signals during cell activation (Xio et al., 2009).

Note: Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.