

**AP20733PU-N****Polyclonal Antibody to RPS6KB1 / STK14A - Aff - Purified****Alternate names:**

70 kDa ribosomal protein S6 kinase 1, 70 kDa ribosomal protein S6 kinase 1, Ribosomal protein S6 kinase I, Ribosomal protein S6 kinase beta-1, S6K-beta-1, S6K1, Serine/threonine-protein kinase 14A, p70 S6 kinase alpha, p70 S6K-alpha, p70 S6KA, p70-S6K 1

**Quantity:**

0.1 mg

**Concentration:**

1.0 mg/ml

**Background:**

In studies to elucidate key regulatory pathways in signal transduction, several protein serine/threonine (Ser/Thr) kinases have been identified, including two distinct families of 40S ribosomal protein S6 Ser/Thr kinases present in somatic animal cells, designated p70 S6 kinase and p90 Rsk kinase. p90 Rsk kinase is maximally activated within minutes of addition of growth factors or phorbol ester to cultured cells followed by activation of p70 S6 kinase. Both enzymes are regulated by serine/threonine phosphorylation, suggesting that specific kinases may exist upstream in the signaling pathway that regulate these kinases. In fact, evidence suggests that one such family of activating enzymes includes the members of the ERK MAP kinase family. The ERK MAP kinases are, in turn, regulated by phosphorylation at threonine and tyrosine residues by a protein kinase designated MEK.

**Uniprot ID:**[P23443](#)**NCBI:**[NP\\_003152](#)**GenID:**[6198](#)**Host:**

Rabbit

**Format:****State:** Liquid purified Ig fraction**Purification:** Affinity-chromatography using epitope-specific immunogen; purity is > 95% (by SDS-PAGE)**Buffer System:** Phosphate buffered saline (PBS), pH 7.2**Preservatives:** 0.09% sodium azide**Stabilizers:** 50% glycerol**Applications:****Western blot:** 1/500 - 1/1000.**Immunohistochemistry on paraffin sections:** 1/50 - 1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Molecular Weight:**

~59,70,85 kDa

**Specificity:**

This antibody detects endogenous levels of p70 S6K protein. (region surrounding Phe438)

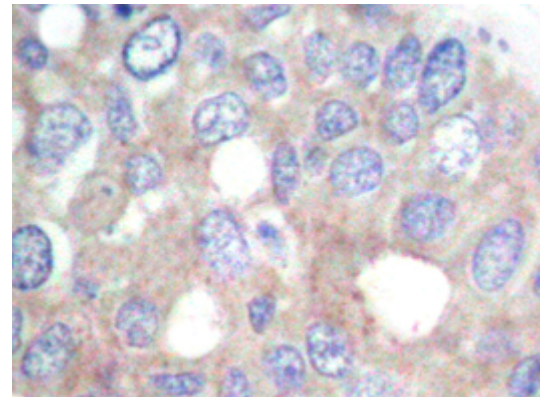
**Species Reactivity:****Tested:** Human.**Expected from sequence similarity:** Mouse and Rat.

**Storage:**

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.  
 Avoid repeated freezing and thawing.  
 Shelf life: one year from despatch.

**Pictures:**

**Immunohistochemistry** analyzes of p70 S6K antibody (Cat.-No.: AP20733PU-N) in paraffin-embedded human breast carcinoma tissue.



**Western blot** analyzes of p70 S6K antibody (Cat.-No.: AP20733PU-N) in extracts from 293 cells.

