

AP06553PU-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:

p70 S6 kinase is a mitogen activated Ser/Thr protein kinase that is required for cell growth and G1 cell cycle progression. p70 S6 kinase phosphorylates the S6 protein of the 40S ribosomal subunit and is involved in translational control of 5' oligopyrimidine tract mRNAs. A second isoform, p85 S6 kinase, is derived from the same gene and is identical to p70 S6 kinase except for 23 extra residues at the amino terminus, which encode a nuclear localizing signal. Both isoforms lie on a mitogen activated signaling pathway downstream of phosphoinositide-3 kinase (PI-3K) and the target of rapamycin, FRAP/mTOR, a pathway distinct from the Ras/MAP kinase cascade. The activity of p70 S6 kinase is controlled by multiple phosphorylation events located within the catalytic, linker and pseudosubstrate domains.

Uniprot ID:[P23443](#)**NCBI:**[NP_003152](#)**GenID:**[6198](#)**Host:**

Rabbit

Immunogen:

Synthetic peptide, corresponding to amino acids 380-430 of Human p70 S6K.

Format:**State:** Liquid purified Ig fraction**Purification:** Affinity-chromatography using epitope-specific immunogen and the 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

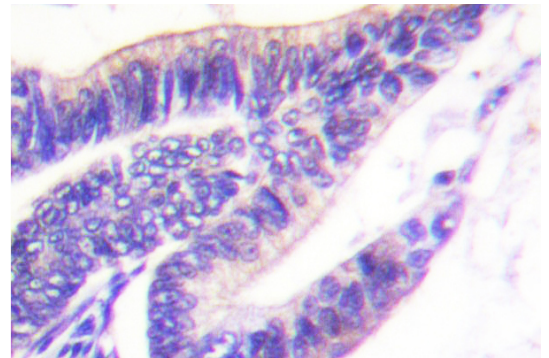
Specificity:This antibody detects endogenous levels of p70 S6K protein.
(region surrounding Pro412)**Species Reactivity:****Tested:** Human.**Expected from sequence similarity:** Mouse and Rat.

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 (IHC) analyzes of p70 S6K antibody (Cat.-No.: AP06553PU-N) in paraffin-embedded human breast tissue.



Western blot (WB) analyzes of p70 S6K antibody (Cat.-No.: AP06553PU-N) in extracts from 293 cells.

