



# **RPS6KB1, CT (Ribosomal Protein S6 Kinase beta-1, S6K-beta-1, S6K1, 70kD Ribosomal Protein S6 Kinase 1, P70S6K1, p70-S6K 1, p70 Ribosomal S6 Kinase alpha, p70 S6 Kinase alpha, p70 S6K-alpha, p70 S6KA, p70-S6K, Ribosomal Protein S6 Kinase I, Serine/threonine-protein Kinase 14A, STK14A) discontinued**

## **Catalog number**

R2031-38U

## **Supplier**

United States Biological

Human p70S6K, otherwise known as RPS6KB1 (Ribosomal protein S6 kinase beta-1), a serine/threonine kinase which acts upon 40S ribosomal protein S6 to induce protein synthesis, allowing for efficient G1 phase progression. p70S6K is activated following phosphorylation of several sites, in response to hormones, growth factors, mitogenic stimuli and physical exercise, and is a downstream effector in the AKT/mTOR (mammalian target of rapamycin) signaling pathway. Studies have implicated that as well as its role in translation, p70S6K acts as a regulator of cell motility, invasion, and cytoskeletal reorganization.

## **Applications**

Suitable for use in ELISA and Western Blot. Other applications not tested.

## **Recommended Dilution**

ELISA: 1:128,000

Western Blot: 0.2-1ug/ml

detects a band of approximately 65-70kD in human muscle and placenta cell lysates.

Optimal dilution to be determined by researcher.

## **Storage and Stability**

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add 40-50% glycerol, aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

## **Immunogen**

Peptide sequence C-MISKRPEHLRMNL corresponding to the C-Terminal region of p70S6K.

## **Formulation**

Supplied as a liquid in TBS, pH 7.3, 0.02% sodium azide and 0.5% BSA.

## **Purity**

Purified by immunoaffinity chromatography.



**Specificity**

Recognizes an epitope within the C-terminal (CT) region of human p70S6K. Species sequence homology: mouse, rabbit, rat

**Product Type**

Pab

**Source**

human

**Isotype**

IgG

**Grade**

Affinity Purified

**Applications**

E WB

**Crossreactivity**

Hu

**Storage**

-20°C