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## **RPS6K1 Antibody**

**Subcategory:** Rabbit Polyclonal Antibody

**Cat. No.:** 253532

**Unit:** 0.1 mg

### **Description:**

Ribosomal protein S6 kinase 1 (RPS6K1) is the best characterized effector of the mammalian Target of Rapamycin (TOR), an evolutionarily conserved serine/threonine kinase that regulates cell growth and cell cycle through its ability to integrate signals from nutrient levels and growth factors. Nutrients and growth factors stimulate a complex including TOR, raptor (regulatory associated protein of TOR), and GbetaL to phosphorylate RPS6K1 and the eukaryotic initiation factor 4E binding protein (4EBP1), leading to increased protein synthesis and cell growth. RPS6K1 is thought to desensitize tissues to insulin as mice deficient in RPS6K1 have been shown to be hypersensitive to insulin and impervious to obesity-induced insulin resistance seen in wild type obese mice.

**Isotype:** Rabbit Ig

**Applications:** E, WB, ICC

**Species Reactivity:** H

**Format:** Each vial contains 0.1 ml IgG in PBS pH 7.4 with 0.02% sodium azide. Antibody was purified by immunogen affinity chromatography.

**Alternate Names:** RPS6K1; Ribosomal protein S6 kinase 1; S6K; p70 S6 kinase; p70-S6K

**Accession No.:** AAC82497

**Antigen:** KLH-conjugated synthetic peptide encompassing a sequence within human RPS6K1.

**Application Notes:** E: 1:500-1:1,000; WB: 1:100-1:500; ICC: 1:100-1:500

**Storage:** Store at -20°C. Minimize freeze-thaw cycles.

Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.