

RPS6K1 Antibody

Catalog No: #24312

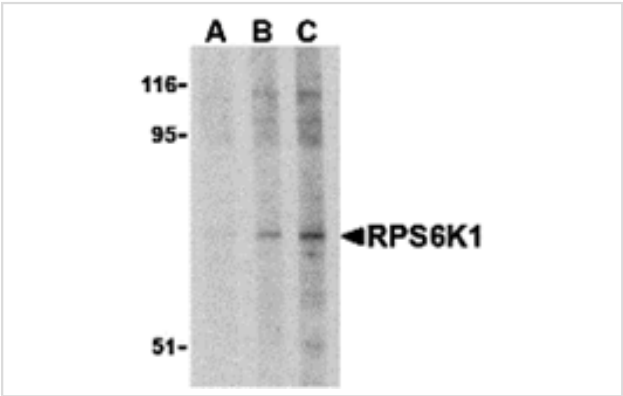


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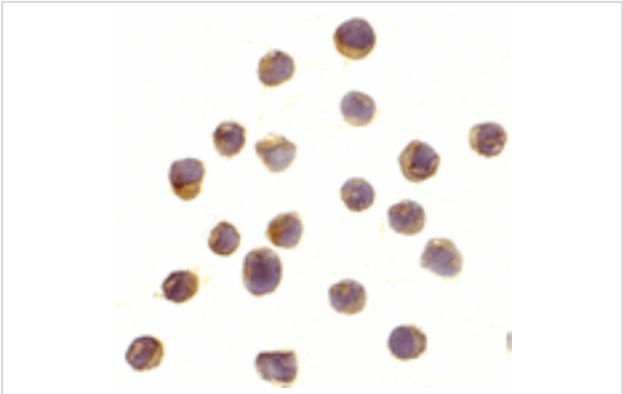
Description

Product Name	RPS6K1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB ICC
Species Reactivity	Hu
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide from near the carboxy terminus of human RPS6K1.
Target Name	RPS6K1
Other Names	Ribosomal protein S6 kinase 1, S6K, p70 S6 kinase, p70-S6K
Accession No.	Swiss-Prot:Q15418Gene ID:6195
Uniprot	Q15418
GeneID	6195;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of RPS6K1 in Jurkat cell lysate with RPS6K1 antibody at (A) 2.5, (B) 5 and (C) 10 ug/mL.



Immunocytochemistry of RPS6K1 in Jurkat cells with RPS6K1 antibody at 10 ug/mL.

Background

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.

Note: This product is for in vitro research use only