Rabbit anti-Human RPS6K1 Polyclonal Antibody | anti-RPS6K1 antibody

RPS6K1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA307745	**Rabbit**	**Human**	**Immunocytochemistry, Western Blot, ELISA**

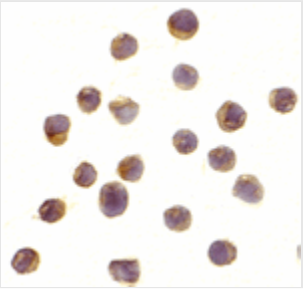
PRODUCT SYNONYMS

RPS6K1; Polyclonal Antibody; RPS6K1 Antibody; Ribosomal protein S6 kinase 1; S6K; p70 S6 kinase; p70-S6K; anti-RPS6K1 antibody

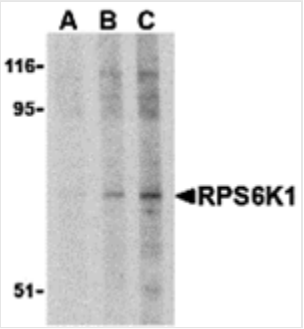
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Affinity chromatography purified via peptide column
Form/Format	Supplied in PBS containing 0.02% sodium azide.
Sequence Length	735
Applicable Applications for anti-RPS6K1 antibody	ICC (Immunocytochemistry), WB (Western Blot), ELISA
Immunogen Type	Peptide
Immunogen Description	Raised against a 16 amino acid peptide from near the carboxy terminus of human RPS6K1.
Target Name	RPS6K1
Preparation and Storage	Can be stored at -20 degree 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



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



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

ADDITIONAL INFORMATION

Related Product Information for anti-RPS6K1 antibody	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.
Product Categories/Family for anti-RPS6K1 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	292457
NCBI GeneID	6195
Molecular Weight	81,147 Da
NCBI Official Full Name	ribosomal protein S6 kinase 1
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 90kDa, polypeptide 1
NCBI Official Symbol	RPS6KA1
NCBI Official Synonym Symbols	RSK; HU-1; RSK1; p90Rsk; MAPKAPK1A
NCBI Protein Information	ribosomal protein S6 kinase alpha-1
UniProt Protein Name	Ribosomal protein S6 kinase alpha-1
UniProt Gene Name	**RPS6KA1**
UniProt Synonym Gene Names	MAPKAPK1A; RSK1; S6K-alpha-1; p90-RSK 1; p90RSK1; p90S6K; MAPK-activated protein kinase 1a; MAPKAP kinase 1a; MAPKAPK-1a; RSK-1
UniProt Entry Name	KS6A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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