

Rabbit anti-Human S6K1/RPS6KB1 Polyclonal Antibody | anti-RPS6KB1 antibody

Anti-S6K1/RPS6KB1 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254423	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Western Blot

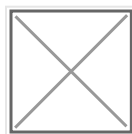
PRODUCT SYNONYMS

S6K1/RPS6KB1; Polyclonal Antibody; Anti-S6K1/RPS6KB1 Antibody; Rabbit Polyclonal; PS6K/RPS6KB1 Antibody; Rabbit PAb; Antigen Affinity Purified; ribosomal protein S6 kinase; polypeptide 1; Anti-p70 S6KA Antibody; Anti-p70(S6K)-alpha Antibody; Anti-p70-alpha Antibody; Anti-p70-S6K Antibody; Anti-PS6K Antibody; Anti-RPS6KB1 Antibody; Anti-S6K Antibody; Anti-S6K-beta-1 Antibody; Anti-S6K1 Antibody; Anti-STK14A Antibody; anti-RPS6KB1 antibody

PRODUCT SPECIFICATIONS

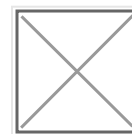
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human PS6K/RPS6KB1
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-RPS6KB1 antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Recombinant Human PS6K/RPS6KB1 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human PS6K/RPS6KB1 (rh PS6K/RPS6KB1). PS6K/RPS6KB1 specific IgG was purified by Human PS6K/RPS6KB1 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

Anti-RPS6KB1 rabbit polyclonal antibody at 1:500 dilution Lane A: Hela Whole Cell Lysate Lane B: MCF7 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 59 kDa Observed band size: 59 kDa (We are unsure as to the identity of these extra bands).



IP (Immunoprecipitation)

RPS6KB1 was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate 2 uL anti-RPS6KB1 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-RPS6KB1 rabbit polyclonal antibody, at 1:100 dilution Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 59 kDa Observed band size: 59 kDa



IF (Immunofluorescence)

Immunofluorescence staining of RPS6KB1 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-human RPS6KB1 polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red). Positive staining was localized to cytoplasm and nucleus.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS6KB1 antibody	PS6K, also known as RPS6KB1, is a serine/threonine-protein kinase. It belongs to the RSK (ribosomal s6 kinase) family. Members of this family function in signal transduction. PS6K is an isoform of p70 ribosomal S6 kinase (S6K). S6K can be activated by mitogenic stimuli such as growth factors, insulin and cytokines. It phosphorylates the ribosomal protein S6. PS6K also phosphorylates other proteins such as eIF4B, eEF2K and SKAR. It is a crucial effector of mTOR(rapamycin) signaling. PS6K is dissociated from the EIF3 complex and activated upon mitogenic stimulation, phosphorylation by the mammalian target of mTOR complex 1 (mTORC1). Its active form then phosphorylates and activates several substrates in the preinitiation complex, including the EIF2B complex and the cap-binding complex component EIF4B. PS6K also functions in cell proliferation, cell growth and cell cycle progression.
Product Categories/Family for anti-RPS6KB1 antibody	AKT Signaling Pathway
References	Panasyuk, et al. (2006) Nuclear export of PS6K II is regulated by protein kinase CK2 phosphorylation at Ser-17. J Biol Chem. 281(42):31188-201. Carnevalli L, et al. (2010) PS6K Plays a Critical Role in Early Adipocyte Differentiation. Dev Cell. 18 (5):763-74. Grove JR, et al. (1991) Cloning and expression of two human p70 S6 kinase polypeptides differing only at their amino termini. Mol Cell Biol. 11(11):5541-50.

NCBI AND UNIPROT INFORMATION

NCBI GI #	440546416
NCBI GeneID	6198
NCBI Accession #	NP_001258989.1
NCBI GenBank Nucleotide #	NM_001272060.1
UniProt Accession #	P23443
Molecular Weight	59,140 Da
NCBI Official Full Name	ribosomal protein S6 kinase beta-1 isoform e
NCBI Official Synonym Full Names	ribosomal protein S6 kinase, 70kDa, polypeptide 1
NCBI Official Symbol	RPS6KB1
NCBI Official Synonym Symbols	S6K; PS6K; S6K1; STK14A; p70-S6K; p70 S6KA; p70-alpha; S6K-beta-1; p70(S6K)-alpha
NCBI Protein Information	ribosomal protein S6 kinase beta-1; p70 S6 kinase, alpha; ribosomal protein S6 kinase I; serine/threonine kinase 14 alpha; serine/threonine-protein kinase 14A
UniProt Protein Name	Ribosomal protein S6 kinase beta-1
UniProt Gene Name	RPS6KB1
UniProt Synonym Gene Names	STK14A; S6K-beta-1; S6K1; P70S6K1; p70-S6K 1; p70 S6 kinase alpha; p70 S6K-alpha; p70 S6KA
UniProt Entry Name	KS6B1_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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/s6k1-rps6kb1-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-western-blot-elisa/254423>