

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

Anti-S6K1/RPS6KB1 Antibody Picoband

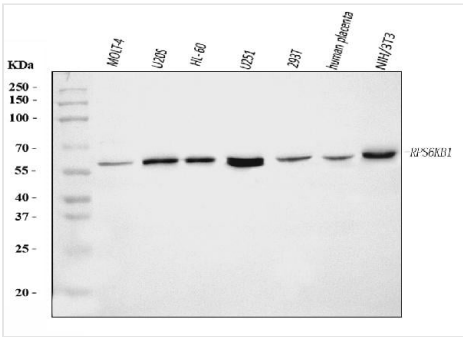
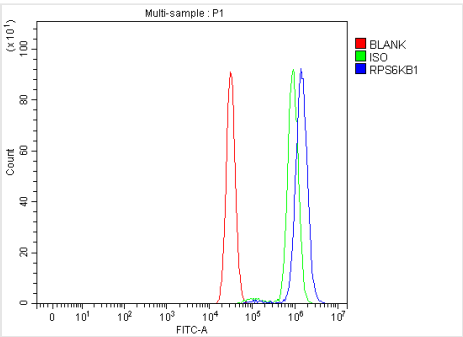
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126143	Rabbit	Human, Mouse	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

S6K1/RPS6KB1; Polyclonal Antibody; Anti-S6K1/RPS6KB1 Antibody Picoband; anti-RPS6KB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human CTSZ
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-RPS6KB1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of MCF-7 cells using anti-S6K1/RPS6KB1 antibody (AAA126143). Overlay histogram showing MCF-7 cells stained with AAA126143 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-S6K1/RPS6KB1 Antibody (AAA126143, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

WB (Western Blot)
Figure 1. Western blot analysis of S6K1/RPS6KB1 using anti-S6K1/RPS6KB1 antibody (AAA126143). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human MOLT4 whole cell lysates, Lane 2: human U20S whole cell lysates, Lane 3: human HL-60 whole cell lysates, Lane 4: human U251 whole cell lysates, Lane 5: human 293T whole cell lysates, Lane 6: human placenta tissue lysates, Lane 7: mouse NIH/3T3 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-S6K1/RPS6KB1 antigen affinity purified polyclonal antibody (#AAA126143) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for S6K1/RPS6KB1 at approximately 59 kDa. The expected band size for S6K1/RPS6KB1 is at 59 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS6KB1 antibody	Background: Cathepsin Z, also called cathepsin X or cathepsin P, is a protein that in humans is encoded by the CTSZ gene. The protein encoded by this gene is a lysosomal cysteine proteinase and member of the peptidase C1 family. It exhibits both carboxy-monopeptidase and carboxy-dipeptidase activities. The encoded protein has also been known as cathepsin X and cathepsin P. This gene is expressed ubiquitously in cancer cell lines and primary tumors and, like other members of this family, may be involved in tumorigenesis. Principle of the Assay: The Picokine™ Human CTSZ Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CTSZ with a 96-well strip plate that is pre-coated with antibody specific for CTSZ. The detection antibody is a biotinylated antibody specific for CTSZ. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human CTSZ with immunogen: Expression system for standard: NS0; Immunogen sequence: A21-V303. The kit is analytically validated with ready-to-use reagents. To measure Human CTSZ, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human CTSZ in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CTSZ in the sample.
Product Categories/Family for anti-RPS6KB1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

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-flow-cytometry-western-blot-elisa/126143>