

Basic Information

Product Name	Anti-p70 S6K/RPS6KB1 Antibody
Gene Name	RPS6KB1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	WB, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human S6K1/RPS6KB1, identical to the related mouse and rat sequences.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	59 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed):1:50-200

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

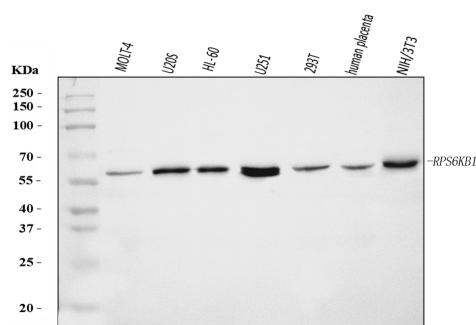
Background Information

Ribosomal protein S6 kinase beta-1 (S6K1), also known as p70S6 kinase (p70S6K, p70-S6K), is an enzyme (specifically, a protein kinase) that in humans is encoded by the RPS6KB1 gene. This gene encodes a member of the ribosomal S6 kinase family of serine/threonine kinases. The encoded protein responds to mTOR (mammalian target of rapamycin) signaling to promote protein synthesis, cell growth, and cell proliferation. Activity of this gene has been associated with human cancer. Alternatively spliced transcript variants have been observed. The use of alternative translation start sites results in isoforms with longer or shorter N-termini which may differ in their subcellular localizations. There are two pseudogenes for this gene on chromosome 17.

Reference

Anti-p70 S6K/RPS6KB1 Antibody被引用在3文献中。

Selected Validation Data



Western blot analysis of p70 S6K/RPS6KB1 using anti-p70 S6K/RPS6KB1 antibody (A01475-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: MOLT-4 whole cell lysates,

Lane 2: U2OS whole cell lysates,

Lane 3: HL-60 whole cell lysates,

Lane 4: U251 whole cell lysates,

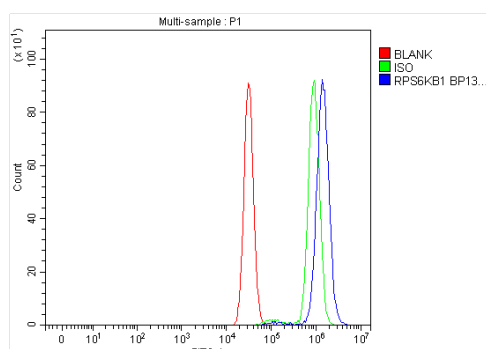
Lane 5: 293T whole cell lysates,

Lane 6: human placenta tissue lysates,

Lane 7: NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-p70 S6K/RPS6KB1 antigen affinity purified polyclonal antibody (A01475-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for p70 S6K/RPS6KB1 at approximately 59 kDa. The expected band size for p70 S6K/RPS6KB1 is at 59 kDa.



Flow Cytometry analysis of MCF-7 cells using anti-p70 S6K/RPS6KB1 antibody (A01475-2).

Overlay histogram showing MCF-7 cells stained with A01475-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-p70 S6K/RPS6KB1 Antibody (A01475-2) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank

Product datasheet

Anti-p70 S6K/RPS6KB1 Antibody

Catalog Number: **A01475-2**



antibody and ELISA experts

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