
Product Name: KD-Validated Ribosomal Protein S6 Kinase B1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01516**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 59.1kDa

Antigen Information

Gene Name	RPS6KB1
Alternative Names	RPS6KB1; Ribosomal Protein S6 Kinase B1; S6K1; P70(S6K)-Alpha; STK14A; PS6K; S6K; Serine/Threonine-Protein Kinase 14A; Ribosomal Protein S6 Kinase Beta-1; Ribosomal Protein S6 Kinase I; EC 2.7.11.1; S6K-Beta-1; P70 S6KA; Ribosomal Protein S6 Kinase, 70kDa, Polypeptide 1; Ribosomal Protein S6 Kinase, 70kD, Polypeptide 1; 70 KDa Ribosomal Protein S6 Kinase 1; Serine/Threonine Kinase 14 Alpha; P70 Ribosomal S6 Kinase Alpha; P70 S6 Kinase Alpha; P70 S6K-Alpha; P70-Alpha; P70-S6K 1; EC 2.7.11; P70-S6K; P70S6K1
Gene ID	6198.0
SwissProt ID	P23443
Immunogen	A synthesized peptide derived from human S6K1

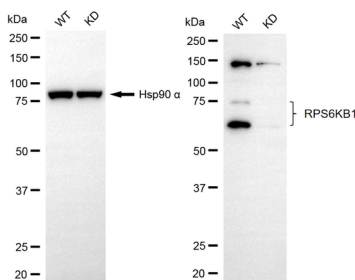
Background

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. [provided by RefSeq, Jan 2013]

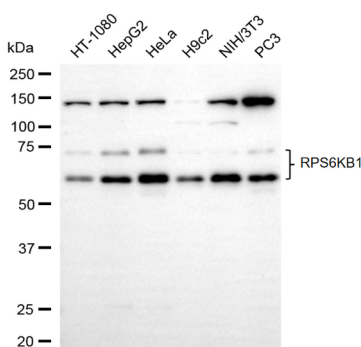
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Signal Transduction, Metabolism

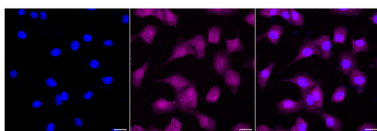
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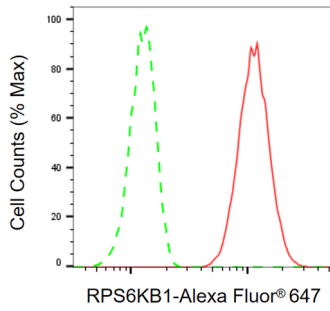
Western blotting analysis using RPS6KB1 antibody (KVA01516). S6K1 expression in wild-type (WT) and RPS6KB1 knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with RPS6KB1 antibody (KVA01516, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using RPS6KB1 antibody (KVA01516). Total cell lysates (20 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RPS6KB1 antibody (KVA01516, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9C2 cells with RPS6KB1 antibody (KVA01516, 1:1,000). Nuclei were stained blue with DAPI; RPS6KB1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of RPS6KB1 expression in C2C12 cells using RPS6KB1 antibody (KVA01516, 1:2,000). Green, isotype control; red, RPS6KB1.