
Product Name: KD-Validated Ribosomal Protein S6 Kinase B2 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00937**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 53.5kDa

Antigen Information

Gene Name	RPS6KB2 Ribosomal Protein S6 Kinase B2; STK14B; P70-BETA; P70S6Kb; S6Kbeta; S6KB; KLS; 70 KDa Ribosomal Protein S6 Kinase 2; Serine/Threonine-Protein Kinase 14B; Ribosomal Protein S6 Kinase Beta-2; P70 Ribosomal S6 Kinase Beta; S6 Kinase-Related Kinase; P70 S6 Kinase Beta;
Alternative Names	P70 S6K-Beta; EC 2.7.11.1; S6K-Beta-2; P70-S6K 2; S6K-Beta; P70 S6KB; P70S6K2; S6K2; SRK; Ribosomal Protein S6 Kinase, 70kDa, Polypeptide 2; Ribosomal Protein S6 Kinase, 70kD, Polypeptide 2; Serine/Threonine-Protein Kinase 14 Beta; P70(S6K)-Beta; P70-Beta-1; P70-Beta-2; S6K-Beta2; EC 2.7.11; P70-Beta; S6KI(2); S6Kβ
Gene ID	6199.0
SwissProt ID	Q9UBS0

Immunogen

A synthesized peptide derived from human P70 S6 Kinase beta

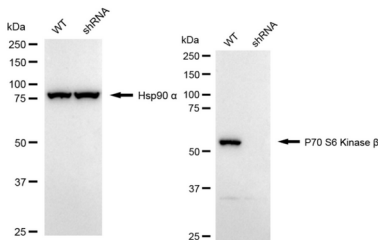
Background

This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains a kinase catalytic domain and phosphorylates the S6 ribosomal protein and eukaryotic translation initiation factor 4B (eIF4B). Phosphorylation of S6 leads to an increase in protein synthesis and cell proliferation. [provided by RefSeq, Jan 2015]

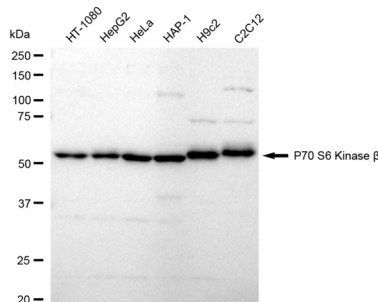
Research Area

Signal Transduction, Metabolism

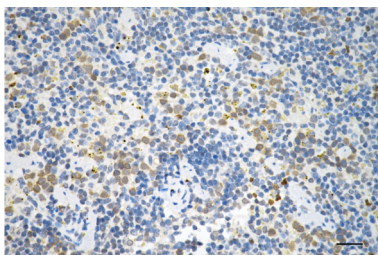
Image Data



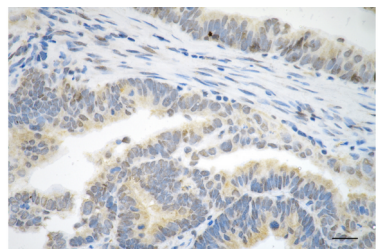
Western blotting analysis using P70 S6 Kinase beta antibody (KVA00937). P70 S6 Kinase beta expression in wild type (WT) and P70 S6 Kinase beta shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with P70 S6 Kinase beta antibody (KVA00937, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



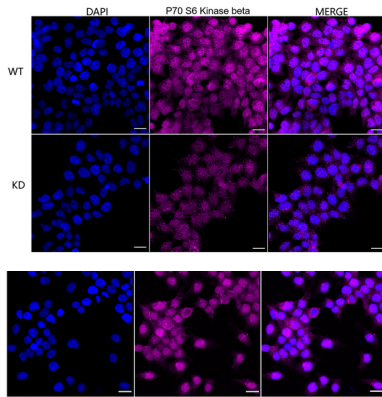
Western blotting analysis using P70 S6 Kinase beta antibody (KVA00937). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with R70 S6 Kinase beta antibody (KVA00937, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



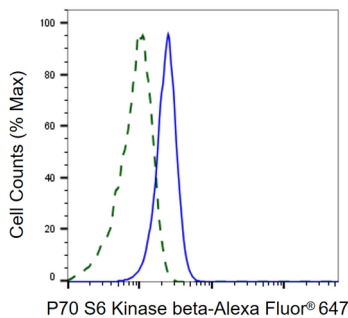
Immunohistochemistry was performed on paraffin-embedded mouse spleen using P70 S6 kinase beta antibody (KVA00937, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded human endometrial carcinoma using P70 S6 kinase beta antibody (KVA00937, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.

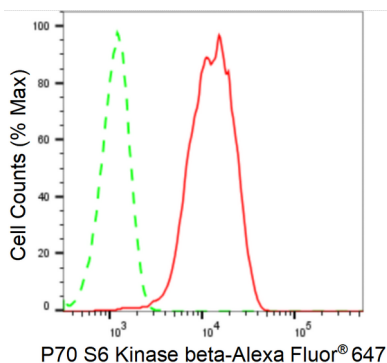


Immunocytochemical staining of HeLa cells using P70 S6 Kinase beta antibody (KVA00937, 1:1,000), Top panel: wild-type (WT); Bottom panel: P70 S6 Kinase beta shRNA knockdown (KD). Nuclei were stained blue with DAPI; P70 S6 Kinase beta was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm. Permeabilization: Triton.



Immunocytochemical staining of HeLa cells with P70 S6 Kinase beta antibody (KVA00937, 1:1,000). Nuclei were stained blue with DAPI; P70 S6 Kinase beta 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.

Validation of P70 S6 Kinase beta knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with P70 S6 Kinase beta antibody (KVA00937, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of P70 S6 Kinase beta expression in HeLa cells using P70 S6 Kinase beta antibody (KVA00937, 1:2,000). Green, isotype control; red, P70 S6 Kinase beta.