

Product Name: KD-Validated RPS6KA1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01775

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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: 82.7kDa

Antigen Information

Gene Name	RPS6KA1 RPS6KA1; Ribosomal Protein S6 Kinase A1; RSK1; MAPKAPK1; HU-1; MAP Kinase-Activated Protein Kinase 1a; 90 KDa Ribosomal Protein S6 Kinase 1; Ribosomal Protein S6 Kinase Alpha-1; MAPK-Activated Protein Kinase 1a; Ribosomal S6 Kinase 1; MAPKAP Kinase 1a; EC 2.7.11.1; MAPKAPK-1a; MAPKAPK1A; P90-RSK 1; P90RSK1; P90Rsk; P90S6K; RSK-1; DJ590P13.1 (Ribosomal Protein S6 Kinase, 90kD, Polypeptide 1); Ribosomal Protein S6 Kinase, 90kDa, Polypeptide 1; Ribosomal Protein S6 Kinase, 90kD, Polypeptide 1; S6K-Alpha 1; S6K-Alpha-1; EC 2.7.11; P90RSK; RSK
Alternative Names	
Gene ID	6195.0
SwissProt ID	Q15418
Immunogen	A synthesized peptide derived from human RSK1 p90

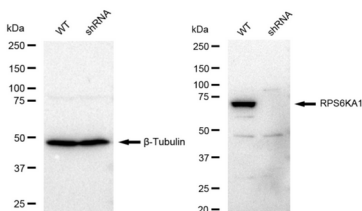
Background

This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinases. This kinase contains 2 nonidentical kinase catalytic domains and phosphorylates various substrates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

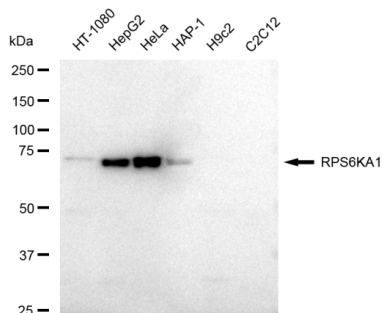
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling

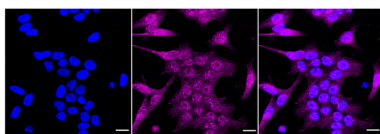
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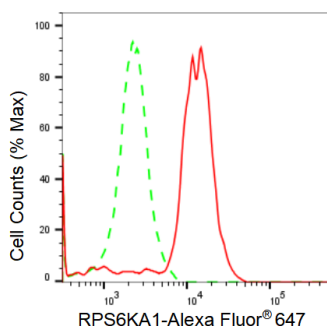
Western blotting analysis using RPS6KA1 antibody (KVA01775). RPS6KA1 expression in wild type (WT) and RPS6KA1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with RPS6KA1 antibody (KVA01775, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using RPS6KA1 antibody (KVA01775). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RPS6KA1 antibody (KVA01775, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells with RPS6KA1 antibody (KVA01775, 1:1,000). Nuclei were stained blue with DAPI; RPS6KA1 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 RPS6KA1 expression in HeLa cells using RPS6KA1 antibody (KVA01775, 1:2,000). Green, isotype control; red, RPS6KA1.