
Product Name: KD-Validated RPS3 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01465**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,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
Molecular Weight	Calculated MW: 26.7kDa

Antigen Information

Gene Name	RPS3
Alternative Names	RPS3; Ribosomal Protein S3; 40S Ribosomal Protein S3; S3; Small Ribosomal Subunit Protein US3; IMR-90 Ribosomal Protein S3; FLJ26283; FLJ27450; MGC87870; US3; EC 4.2.99.18
Gene ID	6188.0
SwissProt ID	P23396
Immunogen	A synthesized peptide derived from human RPS3

Background

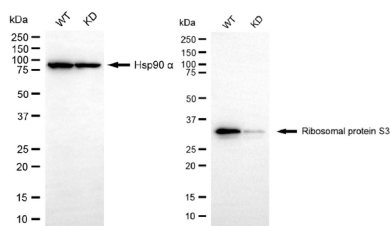
Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit, where it forms part of the domain where translation is initiated. The

protein belongs to the S3P family of ribosomal proteins. Studies of the mouse and rat proteins have demonstrated that the protein has an extraribosomal role as an endonuclease involved in the repair of UV-induced DNA damage. The protein appears to be located in both the cytoplasm and nucleus but not in the nucleolus. Higher levels of expression of this gene in colon adenocarcinomas and adenomatous polyps compared to adjacent normal colonic mucosa have been observed. This gene is co-transcribed with the small nucleolar RNA genes U15A and U15B, which are located in its first and fifth introns, respectively. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

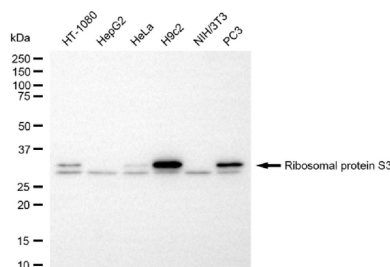
Research Area

Cell Biology, Epigenetics and Nuclear Signaling

Image Data



Western blotting analysis using ribosomal protein S3 antibody (KVA01465). Ribosomal protein S3 expression in wild-type (WT) and ribosomal protein S3 (RPS3) knockdown (KD) HSHC cells with 20 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ribosomal protein S3 antibody (KVA01465, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using ribosomal protein S3 antibody (KVA01465). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ribosomal protein S3 antibody (KVA01465, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.