
Product Name: KD-Validated MRPS18B Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00309

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
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
Molecular Weight	Calculated MW: 29.4kDa

Antigen Information

Gene Name	MRPS18B MRPS18B; Mitochondrial Ribosomal Protein S18B; C6orf14; MRPS18-2; HSPC183; PTD017; MS40; 28S Ribosomal Protein S18-2, Mitochondrial; 28S Ribosomal Protein S18b, Mitochondrial; Small Ribosomal Subunit Protein BS18b; Small Ribosomal Subunit Protein
Alternative Names	MS40; MRP-S18-2; MRP-S18-B; Mrps18-B; S18mt-B; Mitochondrial Small Ribosomal Subunit Protein BS18m-B; Mitochondrial Small Ribosomal Subunit Protein BS18b; Mitochondrial Small Ribosomal Subunit Protein MS40; Mitochondrial Ribosomal Protein S18-2; HumanS18a; S18amt
Gene ID	28973.0
SwissProt ID	Q9Y676
Immunogen	Recombinant protein of human MRPS18B

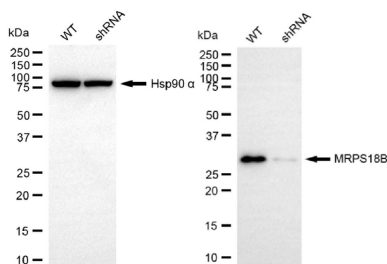
Background

Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein that belongs to the ribosomal protein S18P family. The encoded protein is one of three that has significant sequence similarity to bacterial S18 proteins. The primary sequences of the three human mitochondrial S18 proteins are no more closely related to each other than they are to the prokaryotic S18 proteins. Pseudogenes corresponding to this gene are found on chromosomes 1q and 2q. [provided by RefSeq, Jul 2008]

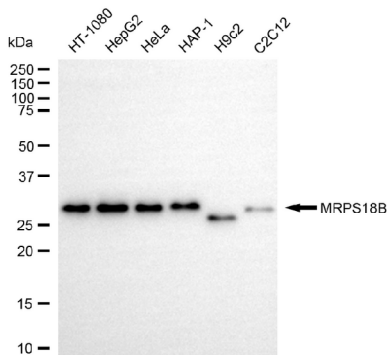
Research Area

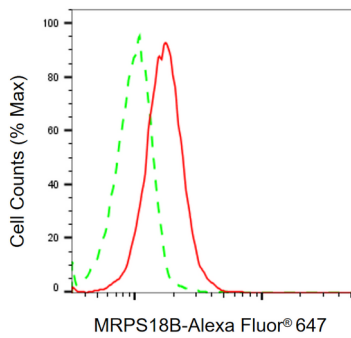
Epigenetics and Nuclear Signaling

Image Data



Western blotting analysis using MRPS18B antibody (KVA00309). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MRPS18B antibody (KVA00309, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.





Flow cytometric analysis of MRPS18B expression in HT-1080 cells using MRPS18B antibody (KVA00309, 1:2,000). Green, isotype control; red, MRPS18B.