

Product Name: KD-Validated MRPL10 Mouse Monoclonal Antibody**Catalog #: KVA01131**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG2b
Clonality	Mouse 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 1:500-1:2,500
Molecular Weight	Calculated MW: 29.3kDa

Antigen Information

Gene Name	MRPL10
Alternative Names	MRPL10; Mitochondrial Ribosomal Protein L10; MRP-L10; MRP-L8; RPML8; MRPL8; 39S Ribosomal Protein L10, Mitochondrial; L10MT; UL10m; 39S Ribosomal Protein L8, Mitochondria; Large Ribosomal Subunit Protein UL10m; MGC17973; L8mt; Mitochondrial Large Ribosomal Subunit Protein UL10m; L10mt
Gene ID	124995.0
SwissProt ID	Q7Z7H8
Immunogen	Recombinant protein of human MRPL10

Background

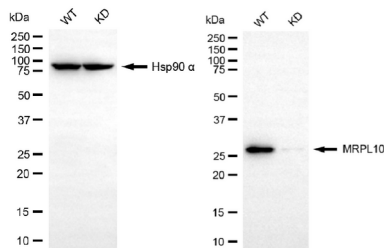
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the

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 39S subunit protein. Sequence analysis identified three transcript variants that encode two different isoforms. A pseudogene corresponding to this gene is found on chromosome 5q. [provided by RefSeq, Nov 2010]

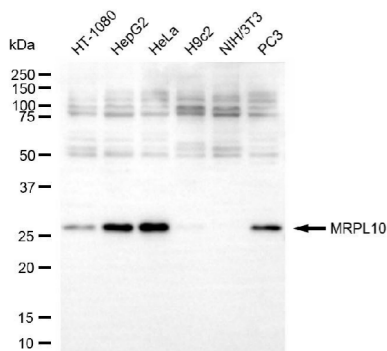
Research Area

Cancer

Image Data



Western blotting analysis using MRPL10 antibody (KVA01131). MRPL10 expression in wild-type (WT) and MRPL10 knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MRPL10 antibody (KVA01131, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using MRPL10 antibody (KVA01131). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MRPL10 antibody (KVA01131, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.