

Product Name: KD-Validated MRPS27 Mouse Monoclonal Antibody**Catalog #: KVA00513**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM
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; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 47.6kDa

Antigen Information

Gene Name	MRPS27
Alternative Names	MRPS27; Mitochondrial Ribosomal Protein S27; KIAA0264; MS27; 28S Ribosomal Protein S27, Mitochondrial; Small Ribosomal Subunit Protein MS27; MRP-S27; S27mt; Mitochondrial Small Ribosomal Subunit Protein MS27; Mitochondrial 28S Ribosomal Protein S27
Gene ID	23107.0
SwissProt ID	Q92552
Immunogen	Recombinant protein of human MRPS27

Background

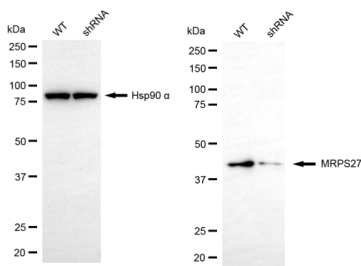
Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the

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 may be a functional partner of the death associated protein 3 (DAP3). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2013]

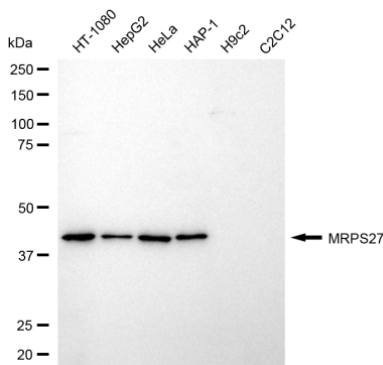
Research Area

Cancer

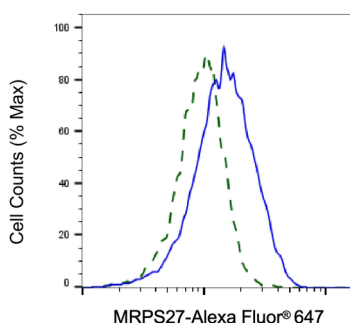
Image Data



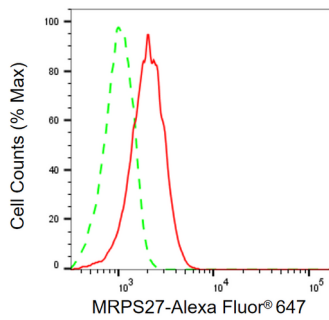
Western blotting analysis using MRPS27 antibody (KVA00513). MRPS27 expression in wild-type (WT) and MRPS27 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with MRPS27 antibody (KVA00513, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using MRPS27 antibody (KVA00513). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with MRPS27 antibody (KVA00513, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Validation of MRPS27 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with MRPS27 antibody (KVA00513, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of MRPS27 expression in HT-1080 cells using MRPS27 antibody (KVA00513, 1:2,000). Green, isotype control; red, MRPS27.