

MRPS31 Rabbit pAb

Catalog No.: A12923

Basic Information

Observed MW

37kDa

Calculated MW

45kDa

Category

Primary antibody

Applications

ELISA,WB,IF/ICC

Cross-Reactivity

Human, Rat

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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that has also been associated with type 1 diabetes; however, its relationship to the etiology of this disease remains to be clarified. Pseudogenes corresponding to this gene have been found on chromosomes 3 and 13.

Recommended Dilutions

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

10240

Swiss Prot

Q92665

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 66-395 of human MRPS31 (NP_005821.2).

Synonyms

S31mt; IMOGN38; MRP-S31; MRPS31

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

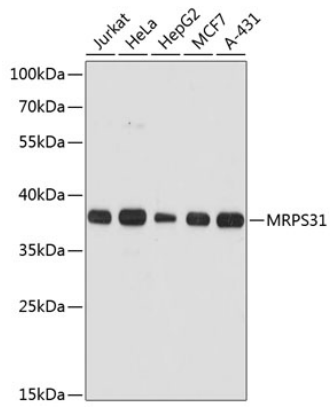
Affinity purification

Storage

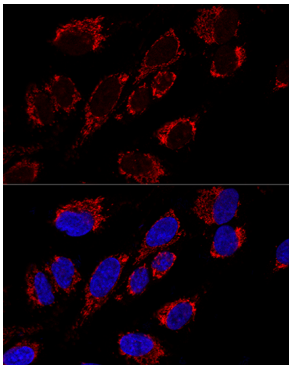
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of various lysates using MRPS31 Rabbit pAb (A12923) at 1:3000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Confocal immunofluorescence analysis of U2OS cells using MRPS31 Rabbit pAb (A12923) at dilution of 1:200. Blue: DAPI for nuclear staining.