ARG42904
anti-MRPS31 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MRPS31
Tested Reactivity	Hu, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MRPS31
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 66-395 of Human MRPS31 (NP_005821.2).
Conjugation	Un-conjugated
Alternate Names	MRP-S31; S31mt; IMOGN38; 28S ribosomal protein S31, mitochondrial; Imogen 38

Application Instructions

Application table

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

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Jurkat
Observed Size	~ 38 kDa

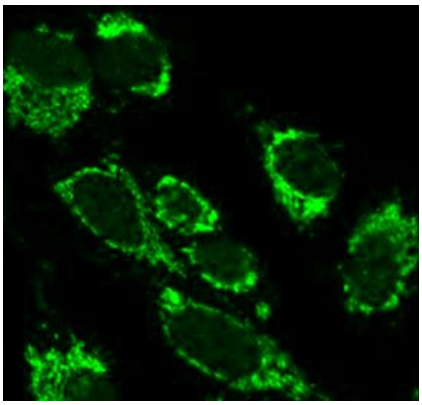
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

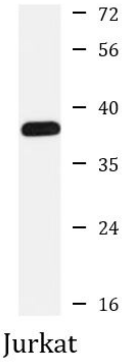
Gene Symbol	MRPS31
Gene Full Name	mitochondrial ribosomal protein S31
Background	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. 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. [provided by RefSeq, Jul 2008]
Calculated Mw	45 kDa
Cellular Localization	Mitochondrion. [UniProt]

Images



ARG42904 anti-MRPS31 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG42904 anti-MRPS31 antibody at 1:200 dilution.



ARG42904 anti-MRPS31 antibody WB image

Western blot: 25 µg of Jurkat cell lysate stained with ARG42904 anti-MRPS31 antibody at 1:3000 dilution.