

Datasheet for ABIN2789214
anti-MRPS31 antibody (N-Term)



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1 Image

Overview

Quantity:	100 µL
Target:	MRPS31
Binding Specificity:	N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MRPS31 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Sequence:	LTVRHGTVRY RSSALLARTK NNIQRYFGTN SVICSKKDKQ SVRTEETSKE
Predicted Reactivity:	Human: 100%
Characteristics:	This is a rabbit polyclonal antibody against MRPS31. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	MRPS31
Alternative Name:	MRPS31 (MRPS31 Products)
Background:	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a

Target Details

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.

Alias Symbols: IMOGN38, MRP-S31, S31mt

Protein Interaction Partner: GRSF1, UBC, SMURF2, PARK2, STAT3, ESR2, SARNP, CPSF7, SRPRB, FLOT1, CUL3, ICT1, USP42, EIF6, LYST,

Protein Size: 395

Molecular Weight: 43 kDa

Gene ID: 10240

NCBI Accession: [NM_005830](#), [NP_005821](#)

UniProt: [Q92665](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 395 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images


90 kDa__

65 kDa__

40 kDa__

29 kDa__

22 kDa__



Rabbit Anti-MRPS31 Antibody

Catalog Number: ARP62691

Lot Number: QC33296

Lane: HT1080 Cell Lysate

Antibody Titration: 1.0µg/ml

Gel Concentration: 12%

Western Blotting

Image 1.