

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

# 1 Image



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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	

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

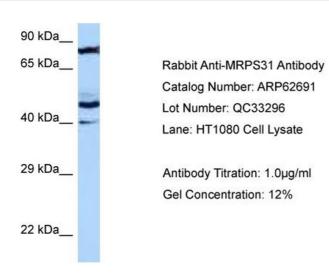
#### Handling

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**



# **Western Blotting**

Image 1.