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Datasheet for ABIN6144045
anti-MRPS31 antibody (AA 66-395)

2 Images

Overview

Quantity:	100 µL
Target:	MRPS31
Binding Specificity:	AA 66-395
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MRPS31 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 66-395 of human MRPS31 (NP_005821.2).
Sequence:	ICSKKDKQSV RTEETSKETS ESQDSEKENT KKDLLGIIKG MKVELSTVNV RTTKPPKRRP LKSLEATLGR LRRATEYAPK KRIEPLSPEL VAAASAVADS LPFDKQTTKS ELLSQLQQHE EESRAQRDAK RPKISFSNII SDMKVARSAT ARVRSRPELR IQFDEGYDNY PGQEKTDDLK KRKNIFTGKR LNIFDMMAVT KEAPETDTSP SLWDVEFAKQ LATVNEQPLQ NGFEELIQWT KEGKLWEFPI NNEAGFDDDG SEFHEHIFLE KHLESFPAKQG PIRHFMELVT CGLSKNPYLS VKQKVEHIEW FRNYFNEKKD ILKESNIQFN
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Characteristics:	Polyclonal Antibodies

Target Details

Target:	MRPS31
Alternative Name:	MRPS31 (MRPS31 Products)
Background:	<p>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.,MRPS31,IMOGN38,MRP-S31,S31 mt,Epigenetics & Nuclear Signaling,RNA Binding,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,Mitochondrial translation,Immunology & Inflammation,MRPS31</p>
Molecular Weight:	45 kDa
Gene ID:	10240
UniProt:	Q92665

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:100 - 1:200,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

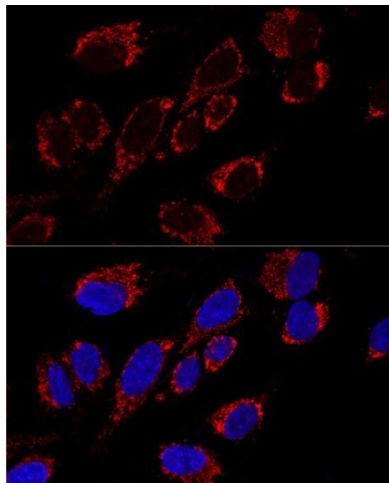
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage: -20 °C

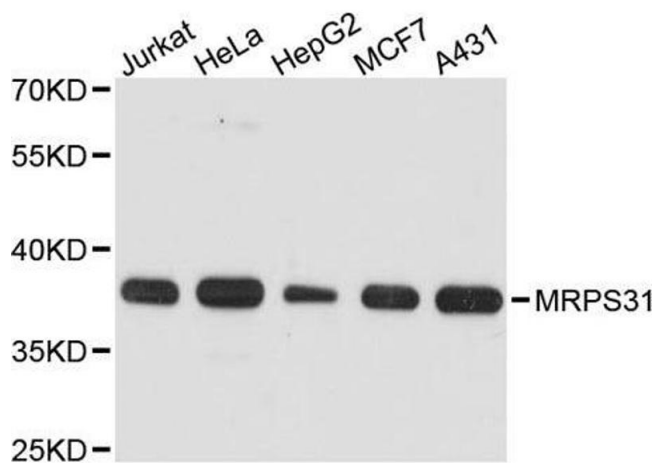
Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunofluorescence

Image 1. Confocal immunofluorescence analysis of U2OS cells using MRPS31 Polyclonal Antibody (ABIN6133059, ABIN6144045, ABIN6144046 and ABIN6216735) at dilution of 1:200. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using MRPS31 antibody.