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## Datasheet for ABIN7467595 **anti-MRPL42 antibody**

### Overview

Quantity:	100 µL
Target:	MRPL42
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MRPL42 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

### Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human MRPL42. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Purified by antigen-affinity chromatography.

### Target Details

Target:	MRPL42
Alternative Name:	mitochondrial ribosomal protein L42 ( <a href="#">MRPL42 Products</a> )
Background:	Mitochondrial ribosomal protein L42 , HSPC204 , L31MT , L42MT , MRP-L31 , MRP-L42 , MRP-S32 , MRPL31 , MRPS32 , PTD007 , RPML31 , S32MT, Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion.

## Target Details

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. This gene encodes a protein identified as belonging to both the 28S and the 39S subunits. Further experiments will be needed to identify the specific subunit localization. Sequence analysis identified three transcript variants that encode two different isoforms. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q. [provided by RefSeq]

Molecular Weight:	17 kDa
Gene ID:	28977
UniProt:	<a href="#">Q9Y6G3</a>

## Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: U87-MG , SK-N-SH , IMR32 , SK-N-AS
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	0.69 mg/mL
Buffer:	0.1M Tris-Glycine ( pH 7), 20 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid

multiple freeze-thaw cycles.