

MRPL21 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00219927-T01

Size 100 uL

Applications

SDS-PAGE Gel

MRPL21 transfected lysate

□

Western Blot

Lane 1: MRPL21 transfected lysate (23.1 KDa).

Lane 2: Non-transfected lysate.

□

Specification

Transfected Cell Line 293T

Plasmid pCMV-MRPL21 full-length

Host Human

Theoretical MW (kDa) 23.1

Quality Control Testing Transient overexpression cell lysate was tested with Anti-MRPL21 antibody ([H00219927-B01](#)) by Western Blots.

SDS-PAGE Gel

MRPL21 transfected lysate

Western Blot

Lane 1: MRPL21 transfected lysate (23.1 KDa).

Lane 2: Non-transfected lysate.

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — MRPL21

Entrez GeneID[219927](#)**GeneBank Accession#**[BC055088](#)**Protein Accession#**[AAH55088](#)**Gene Name**

MRPL21

Gene Alias

L21mt, MGC62013, MRP-L21

Gene Description

mitochondrial ribosomal protein L21

Gene Ontology[Hyperlink](#)**Gene Summary**

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. This gene encodes a 39S subunit protein. Multiple transcript variants encoding different isoforms were identified through sequence analysis although some may be subject to nonsense-mediated decay (NMD). [provided by RefSeq]

Other Designations

39S ribosomal protein L21, mitochondrial