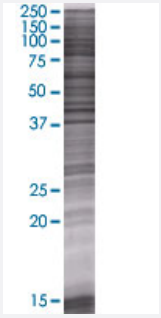
MRPL42 293T Cell Transient Overexpression Lysate(Denatured)

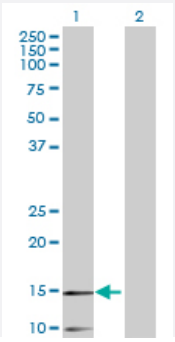
Catalog # H00028977-T01 Size 100 uL

Applications



SDS-PAGE Gel

MRPL42 transfected lysate.



Western Blot

Lane 1: MRPL42 transfected lysate (15.73 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-MRPL42 full-length
Host	Human
Theoretical MW (kDa)	15.73
Interspecies Antigen Sequence	Mouse (76); Rat (73)

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-MRPL42 antibody (H00028977-B01) by W estern Blots. SDS-PAGE Gel MRPL42 transfected lysate. Western Blot Lane 1: MRPL42 transfected lysate (15.73 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% Bro mophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — MRPL42

Entrez GeneID	28977
GeneBank Accession#	NM_014050.2
Protein Accession#	NP_054769.1
Gene Name	MRPL42
Gene Alias	HSPC204, MRP-L31, MRPL31, MRPS32, PTD007, RPML31
Gene Description	mitochondrial ribosomal protein L42
Gene Ontology	Hyperlink
Gene Summary	Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein s ynthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28 S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition co mpared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mam malian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among diff erent species, the proteins comprising the mitoribosome differ greatly in sequence, and sometim es 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 experime nts will be needed to identify the specific subunit localization. Sequence analysis identified three tr anscript variants that encode two different isoforms. Pseudogenes corresponding to this gene are found on chromosomes 4q, 6p, 6q, 7p, and 15q. [provided by RefSeq
Other Designations	mitochondrial ribosomal protein S32

Disease

- Diabetes Mellitus