

Recombinant Human MRPS31 cell lysate

Cat. No. MRPS31-1136HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	MRPS31 mitochondrial ribosomal protein S31 [Homo sapiens]
Official Symbol	MRPS31
Synonyms	MRPS31; mitochondrial ribosomal protein S31; 28S ribosomal protein S31, mitochondrial; IMOGN38; imogen 38; S31mt; MRP-S31;
Gene ID	10240
mRNA Refseq	NM_005830
Protein Refseq	NP_005821
MIM	611992
UniProt ID	Q92665
Chromosome Location	13q14.11
Function	protein binding; protein domain specific binding;

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