



Rabbit Anti-Human MRPL1 Polyclonal Antibody (CABT-L2225)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal Antibody to Mitochondrial Ribosomal Protein L1 (Knockout Validated)
Specificity	The antibody is a rabbit polyclonal antibody raised against MRPL1. It has been selected for its ability to recognize MRPL1 in immunohistochemical staining and western blotting.
Target	MRPL1
Immunogen	Recombinant fragment corresponding to human MRPL1 (Pro147~Asn285)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Lot specific
Size	200 µg
Buffer	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
Preservative	0.05% Proclin-300

Storage	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
Ship	4°C with ice bags

BACKGROUND

Introduction	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 that belongs to the L1 ribosomal protein family. [provided by RefSeq, Jul 2008]
Keywords	MRP-L1;BM022;L1mt;39S Ribosomal Protein L1,Mitochondrial

GENE INFORMATION

Gene Name	MRPL1 mitochondrial ribosomal protein L1 [Homo sapiens (human)]
Official Symbol	MRPL1
Synonyms	MRPL1; mitochondrial ribosomal protein L1; L1MT; BM022; MRP-L1; 39S ribosomal protein L1, mitochondrial;
Entrez Gene ID	65008
Protein Refseq	NP_064621
UniProt ID	Q9BYD6
Chromosome Location	4q21.1
Pathway	Mitochondrial translation; Mitochondrial translation elongation; Mitochondrial translation initiation; Mitochondrial translation termination; Organelle biogenesis and maintenance; Ribosome;
Function	poly(A) RNA binding; structural constituent of ribosome;