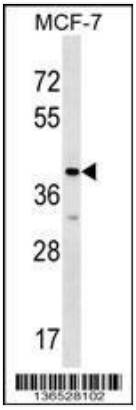
MRPL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPL1, Polyclonal Antibody
Full Product Name	MRPL1, NT (MRPL1, 39S ribosomal protein L1, mitochondrial) (Azide free) (HRP)
Product Gene Name	anti-MRPL1 antibody
Product Synonym Names	MRPL1; 39S ribosomal protein L1, mitochondrial
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	36,909 Da
OMIM	611821
3D Structure	ModBase 3D Structure for Q9BYD6
Immunogen	MRPL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 69-97 amino acids from the N-terminal region of human MRPL1.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-MRPL1 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-MRPL1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-MRPL1 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MRPL1 antibody	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.
Product References and Citations for anti-MRPL1 antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Lamesch, P., et al. Genomics 89(3):307-315(2007). Zhang, Z., et al. Genomics 81(5):468-480(2003). Kenmochi, N., et al. Genomics 77 (1-2), 65-70 (2001): Suzuki, T., et al. J. Biol. Chem. 276(24):21724-21736(2001).

Other Notes	Small volumes of anti-MRPL1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MRPL1 purchase	MBS6322124 is an antibody targeting MRPL1. Also known as MRPL1, NT (MRPL1, 39S ribosomal protein L1, mitochondrial) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MRPL1 antibody
MRPL1 Antibody (N-term) western blot analysis in MCF-7 cell line lysates (35ug/lane).This demonstrates the MRPL1 antibody detected the MRPL1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL1. It may not necessarily be applicable to this product.

NCBI GI #	143770802
NCBI GeneID	65008
NCBI Accession #	NP_064621.3
UniProt Primary Accession #	Q9BYD6
UniProt Secondary Accession #	Q4W5B8; Q6IAG4; Q96BW3; Q9H793; Q9NRL5; A6NG03
UniProt Related Accession #	Q9BYD6
GenBank Nucleotide #	NM_020236.3
NCBI Official Full Name	39S ribosomal protein L1, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L1
NCBI Official Symbol	MRPL1
NCBI Official Synonym Symbols	L1MT; BM022; MRP-L1
UniProt Protein Name	39S ribosomal protein L1, mitochondrial
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL1
UniProt Synonym Gene Names	L1mt; MRP-L1
UniProt Entry Name	RM01_HUMAN
NCBI Protein Information	39S ribosomal protein L1, mitochondrial

UniProt Comments for MRPL1	MRPL1: a mitochondrial ribosomal protein encoded by a nuclear gene that helps 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] Protein type: Mitochondrial; RNA-binding Chromosomal Location of Human Ortholog: 4q21.1 Cellular Component: nucleoplasm; mitochondrion; mitochondrial inner membrane; large ribosomal subunit Molecular Function: structural constituent of ribosome Biological Process: mitochondrial translation; organelle organization and biogenesis
Research Articles on MRPL1	**1.** Observational study of gene-disease association. (HuGE Navigator)
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