MRPL32 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPL32, Polyclonal Antibody
Full Product Name	MRPL32 (39S Ribosomal Protein L32, Mitochondrial, L32mt, MRP-L32, MRPL32) (FITC)
Product Gene Name	anti-MRPL32 antibody
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 Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes human MRPL32. Species Crossreactivity: human
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.
Molecular Weight	21,405 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (42971939..42977456). Location: 7p14
OMIM	611839
3D Structure	ModBase 3D Structure for Q9BYC8
Immunogen	KLH conjugated synthetic peptide corresponding to human MRPL32.
Conjugate	FITC
Note	Preservative Free
Product Categories/Family for anti-MRPL32 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-MRPL32 antibody	Western Blot (WB)
Application Notes for anti-MRPL32 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-MRPL32 antibody	MBS6457375 is an antibody targeting MRPL32. Also known as MRPL32 (39S Ribosomal Protein L32, Mitochondrial, L32mt, MRP-L32, MRPL32) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-MRPL32 antibody	Suzuki T., et al. J. Biol. Chem. 276:21724-21736(2001). Ye M., et al. Submitted (MAY-1999) to the EMBL/GenBank/DDBJ databases. Kenmochi N., et al. Genomics 77:65-70(2001). Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).
Other Notes	Small volumes of anti-MRPL32 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL32. It may not necessarily be applicable to this product.

NCBI GI #	13994261
NCBI GeneID	64983
NCBI Accession #	NP_114109.1
UniProt Primary Accession #	Q9BYC8
UniProt Secondary Accession #	Q96Q68; Q9P098
UniProt Related Accession #	Q9BYC8
GenBank Nucleotide #	NM_031903.2
NCBI Official Full Name	39S ribosomal protein L32, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L32
NCBI Official Symbol	MRPL32
NCBI Official Synonym Symbols	L32mt; HSPC283; MRP-L32; bMRP-59b
UniProt Protein Name	39S ribosomal protein L32, mitochondrial
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL32
UniProt Synonym Gene Names	L32mt; MRP-L32
UniProt Entry Name	RM32_HUMAN
NCBI Protein Information	39S ribosomal protein L32, mitochondrial
NCBI Summary for MRPL32	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 L32 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome Xp. [provided by RefSeq, Jul 2008]
UniProt Comments for MRPL32	MRPL32: 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 L32 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome Xp. [provided by RefSeq, Jul 2008] Chromosomal Location of Human Ortholog: 7p14 Cellular Component: mitochondrial inner membrane; mitochondrial ribosome; large ribosomal subunit Molecular Function: structural constituent of ribosome Biological Process: translation; mitochondrial translation; organelle organization and biogenesis
Research Articles on MRPL32	**1.** Observational study of gene-disease association. (HuGE Navigator)
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