RM51 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RM51, Polyclonal Antibody
Full Product Name	RM51, CT (MRPL51, MRP64, 39S ribosomal protein L51, mitochondrial, bMRP-64) (MaxLight 550)
Product Gene Name	anti-RM51 antibody
Product Synonym Gene Name	MRPL51
Product Synonym Names	MRPL51; MRP64; 39S ribosomal protein L51, mitochondrial; bMRP-64
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	15,095 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (6601316..6602471, complement). Location: 12p13.3-p13.1
OMIM	611855
3D Structure	ModBase 3D Structure for Q4U2R6
Immunogen	RM51 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-132 amino acids from the C-terminal region of human RM51.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-RM51 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-RM51 antibody	Western Blot (WB), FLISA
Application Notes for anti-RM51 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RM51 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. Pseudogenes corresponding to this gene are found on chromosomes 4p and 21q.

Product References and Citations for anti-RM51 antibody	Zhang, Z., et al. Genomics 81(5):468-480(2003). Koc, E.C., et al. J. Biol. Chem. 276(47):43958-43969(2001). Kenmochi, N., et al. Genomics 77 (1-2), 65-70 (2001): Suzuki, T., et al. J. Biol. Chem. 276(35):33181-33195(2001).
Other Notes	Small volumes of anti-RM51 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 RM51 purchase	MBS6342309 is an antibody targeting RM51. Also known as RM51, CT (MRPL51, MRP64, 39S ribosomal protein L51, mitochondrial, bMRP-64) (MaxLight 550). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RM51. It may not necessarily be applicable to this product.

NCBI GI #	16950607
NCBI GeneID	51258
NCBI Accession #	NP_057581.2
UniProt Primary Accession #	Q4U2R6
UniProt Secondary Accession #	Q96Q57; Q9BQ36; Q9P0N7
UniProt Related Accession #	Q4U2R6
GenBank Nucleotide #	NM_016497.3
NCBI Official Full Name	39S ribosomal protein L51, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L51
NCBI Official Symbol	MRPL51
NCBI Official Synonym Symbols	CDA09; MRP64; bMRP64; HSPC241
UniProt Protein Name	39S ribosomal protein L51, mitochondrial
UniProt Synonym Protein Names	bMRP-64
UniProt Gene Name	MRPL51
UniProt Synonym Gene Names	MRP64; L51mt; MRP-L51; bMRP64
UniProt Entry Name	RM51_HUMAN
NCBI Protein Information	39S ribosomal protein L51, mitochondrial; L51mt; MRP-L51; bMRP-64; mitochondrial ribosomal protein 64; mitochondrial ribosomal protein bMRP64
UniProt Comments for RM51	MRPL51: Component of the mitochondrial ribosome large subunit (39S) which comprises a 16S rRNA and about 50 distinct proteins. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 12p13.3-p13.1 Cellular Component: mitochondrial inner membrane; mitochondrial ribosome; mitochondrial large ribosomal subunit Molecular Function: protein binding; structural constituent of ribosome Biological Process: mitochondrial translation; translation; organelle organization and biogenesis
Research Articles on RM51	**1.** Observational study of gene-disease association. (HuGE Navigator)

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