RM45 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RM45, Polyclonal Antibody
Full Product Name	RM45, ID (39S ribosomal protein L45,mitochondrial,L45mt,MRP-L45,MRPL45) (MaxLight 550)
Product Gene Name	anti-RM45 antibody
Product Synonym Gene Name	MRPL45
Product Synonym Names	39S ribosomal protein L45,mitochondrial, L45mt; MRP-L45; MRPL45
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	306
OMIM	611850
3D Structure	ModBase 3D Structure for Q9BRJ2
Immunogen	RM45 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the Central region of human RM45.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-RM45 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-RM45 antibody	Western Blot (WB), FLISA
Application Notes for anti-RM45 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-RM45 antibody	MaxLight550 is a new Yellow-Green photostable dye conjugate comparable to Alexa Fluor546, 555, DyLight549, Cy3, TRITC and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (550nm); Emission (575nm); Extinction Coefficient 150,000.
Other Notes	Small volumes of anti-RM45 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 RM45 purchase	MBS6342287 is an antibody targeting RM45. Also known as RM45, ID (39S ribosomal protein L45,mitochondrial,L45mt,MRP-L45,MRPL45) (MaxLight 550). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RM45. It may not necessarily be applicable to this product.

NCBI GI #	29611869
NCBI GeneID	84311
NCBI Accession #	Q9BRJ2.2
UniProt Primary Accession #	Q9BRJ2
UniProt Secondary Accession #	Q6ZMJ5; A1L436
UniProt Related Accession #	Q9BRJ2
NCBI Official Full Name	39S ribosomal protein L45, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L45
NCBI Official Symbol	MRPL45
NCBI Official Synonym Symbols	L45mt; MRP-L45
UniProt Protein Name	39S ribosomal protein L45, mitochondrial
UniProt Gene Name	MRPL45
UniProt Synonym Gene Names	L45mt; MRP-L45
UniProt Entry Name	RM45_HUMAN
NCBI Protein Information	39S ribosomal protein L45, mitochondrial
NCBI Summary for RM45	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. Alternative splicing results in multiple transcript variants. Pseudogenes corresponding to this gene are found on chromosomes 2p and 17q. [provided by RefSeq, May 2013]
UniProt Comments for RM45	MRPL45: 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. Pseudogenes corresponding to this gene are found on chromosomes 2p and 17q. [provided by RefSeq, Jul 2008] Protein type: Ribosomal; Translation; Mitochondrial; RNA-binding Chromosomal Location of Human Ortholog: 17q21.2 Cellular Component: mitochondrion; mitochondrial inner membrane; ribosome Biological Process: mitochondrial translation; organelle organization and biogenesis
Research Articles on RM45	**1.** Observational study of gene-disease association. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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