MRPL41 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPL41, Polyclonal Antibody
Full Product Name	MRPL41, NT (MRPL41, BMRP, MRPL27, RPML27, 39S ribosomal protein L41, mitochondrial, 39S ribosomal protein L27 homolog, Bcl-2-interacting mitochondrial ribosomal protein L41, Cell proliferation-inducing gene 3 protein, MRP-L27 homolog) (MaxLight 490)
Product Gene Name	anti-MRPL41 antibody
Product Synonym Names	MRPL41; BMRP; MRPL27; RPML27; 39S ribosomal protein L41, mitochondrial; 39S ribosomal protein L27 homolog; Bcl-2-interacting mitochondrial ribosomal protein L41; Cell proliferation-inducing gene 3 protein; MRP-L27 homolog
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 MaxLight490.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	15,383 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (140446309..140447007). Location: 9q34.3
OMIM	611846
3D Structure	ModBase 3D Structure for Q8IXM3
Immunogen	MRPL41 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 7-36 amino acids from the N-terminal region of human MRPL41.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-MRPL41 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-MRPL41 antibody	Western Blot (WB), FLISA
Application Notes for anti-MRPL41 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-MRPL41 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 YmL27 ribosomal protein family.
Product References and Citations for anti-MRPL41 antibody	Kim, M.J., et al. Biochem. Biophys. Res. Commun. 338(2):1179-1184(2005). Yoo, Y.A., et al. Mol. Cell. Biol. 25(15):6603-6616(2005). Chintharlapalli, S.R., et al. J. Cell. Biochem. 94(3):611-626(2005). Humphray, S.J., et al. Nature 429(6990):369-374(2004). Zhang, Z., et al. Genomics 81(5):468-480(2003).
Other Notes	Small volumes of anti-MRPL41 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 MRPL41 purchase	MBS6322203 is an antibody targeting MRPL41. Also known as MRPL41, NT (MRPL41, BMRP, MRPL27, RPML27, 39S ribosomal protein L41, mitochondrial, 39S ribosomal protein L27 homolog, Bcl-2-interacting mitochondrial ribosomal protein L41, Cell proliferation-inducing gene 3 protein, MRP-L27 homolog) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL41. It may not necessarily be applicable to this product.

NCBI GI #	21265093
NCBI GeneID	64975
NCBI Accession #	NP_115866.1
UniProt Primary Accession #	Q8IXM3
UniProt Secondary Accession #	Q96Q49
UniProt Related Accession #	Q8IXM3
GenBank Nucleotide #	NM_032477.2
NCBI Official Full Name	39S ribosomal protein L41, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L41
NCBI Official Symbol	MRPL41
NCBI Official Synonym Symbols	BMRP; PIG3; MRPL27; RPML27; MRP-L27
UniProt Protein Name	39S ribosomal protein L41, mitochondrial
UniProt Synonym Protein Names	39S ribosomal protein L27 homolog; Bcl-2-interacting mitochondrial ribosomal protein L41; Cell proliferation-inducing gene 3 protein; MRP-L27 homolog
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL41
UniProt Synonym Gene Names	BMRP; MRPL27; RPML27; L41mt; MRP-L41
UniProt Entry Name	RM41_HUMAN
NCBI Protein Information	39S ribosomal protein L41, mitochondrial; L41mt; MRP-L41; MRP-L27 homolog; proliferation-inducing gene 3; 39S ribosomal protein L27 homolog; cell proliferation-inducing gene 3 protein; bcl-2-interacting mitochondrial ribosomal protein L41

UniProt Comments for MRPL41	MRPL41: Component of the mitochondrial ribosome large subunit. Also involved in apoptosis and cell cycle. Enhances p53/TP53 stability, thereby contributing to p53/TP53-induced apoptosis in response to growth-inhibitory condition. Enhances p53/TP53 translocation to the mitochondria. Has the ability to arrest the cell cycle at the G1 phase, possibly by stabilizing the CDKN1A and CDKN1B (p27Kip1) proteins. Belongs to the ribosomal protein L41 family. Protein type: RNA-binding; Mitochondrial Chromosomal Location of Human Ortholog: 9q34.3 Cellular Component: mitochondrion; mitochondrial inner membrane; ribonucleoprotein complex; mitochondrial large ribosomal subunit Molecular Function: protein binding; structural constituent of ribosome Biological Process: mitochondrial translation; translation; apoptosis; organelle organization and biogenesis; cell cycle
Research Articles on MRPL41	**1.** Apoptosis-inducing ability of wild-type BMRP is blocked by Bcl-2 through several mechanisms.
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