MRPS2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPS2, Polyclonal Antibody
Full Product Name	MRPS2, NT (MRPS2, 28S ribosomal protein S2, mitochondrial) (MaxLight 750)
Product Gene Name	anti-MRPS2 antibody
Product Synonym Names	MRPS2; 28S ribosomal protein S2, 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 MaxLight750.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	33,249 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (138392477..138396519). Location: 9q34
OMIM	611971
3D Structure	ModBase 3D Structure for Q9Y399
Immunogen	MRPS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-71 amino acids from the N-terminal region of human MRPS2.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-MRPS2 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-MRPS2 antibody	Western Blot (WB), FLISA
Application Notes for anti-MRPS2 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-MRPS2 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 28S subunit protein that belongs to the ribosomal protein S2 family.
Product References and Citations for anti-MRPS2 antibody	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(35):33181-33195(2001). Cavdar Koc, E., et al. J. Biol. Chem. 276(22):19363-19374(2001).

Other Notes	Small volumes of anti-MRPS2 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 MRPS2 purchase	MBS6322316 is an antibody targeting MRPS2. Also known as MRPS2, NT (MRPS2, 28S ribosomal protein S2, mitochondrial) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPS2. It may not necessarily be applicable to this product.

NCBI GI #	7705805
NCBI GeneID	51116
NCBI Accession #	NP_057118.1
UniProt Primary Accession #	Q9Y399
UniProt Secondary Accession #	Q5T899; Q9BSQ4
UniProt Related Accession #	Q9Y399
GenBank Nucleotide #	NM_016034.4
NCBI Official Full Name	28S ribosomal protein S2, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S2
NCBI Official Symbol	MRPS2
NCBI Official Synonym Symbols	S2mt; CGI-91; MRP-S2
UniProt Protein Name	28S ribosomal protein S2, mitochondrial
Protein Family	28S ribosomal protein
UniProt Gene Name	MRPS2
UniProt Synonym Gene Names	MRP-S2; S2mt
UniProt Entry Name	RT02_HUMAN
NCBI Protein Information	28S ribosomal protein S2, mitochondrial
NCBI Summary for MRPS2	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 28S subunit protein that belongs to the ribosomal protein S2 family. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2012]

UniProt Comments for MRPS2	MRPS2: 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 28S subunit protein that belongs to the ribosomal protein S2 family. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2012] Protein type: Ribosomal; Translation; Mitochondrial Chromosomal Location of Human Ortholog: 9q34 Cellular Component: mitochondrion; mitochondrial small ribosomal subunit Molecular Function: structural constituent of ribosome Biological Process: translation
Research Articles on MRPS2	**1.** Observational study of gene-disease association. (HuGE Navigator)
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