MRPS12 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPS12, Polyclonal Antibody
Full Product Name	MRPS12 Antibody
Product Gene Name	anti-MRPS12 antibody
Product Synonym Names	RPMS12; RPSM12; 28S ribosomal protein S12, mitochondrial; MRP-S12; S12mt; MT-RPS12
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Specificity	Recognizes endogenous levels of MRPS12 protein.
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	15,173 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (39421348..39423660). Location: 19q13.1-q13.2
OMIM	603021
3D Structure	ModBase 3D Structure for O15235
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human MRPS12. The exact sequence is proprietary.
Product Categories/Family for anti-MRPS12 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MRPS12 antibody	Western Blot (WB)
Application Notes for anti-MRPS12 antibody	WB: 1:500-1:1000
Related Product Information for anti-MRPS12 antibody	MBS8581015 is an antibody targeting MRPS12. Also known as MRPS12 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to MRPS12
Other Notes	Small volumes of anti-MRPS12 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 MRPS12. It may not necessarily be applicable to this product.

NCBI GI #	11056056
NCBI GeneID	6183

NCBI Accession #	NP_066930.1
UniProt Primary Accession #	O15235
UniProt Secondary Accession #	Q53X98
UniProt Related Accession #	O15235
GenBank Nucleotide #	NM_021107.1
NCBI Official Full Name	28S ribosomal protein S12, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S12
NCBI Official Symbol	MRPS12
NCBI Official Synonym Symbols	RPS12; RPMS12; RPSM12; MPR-S12; MT-RPS12
UniProt Protein Name	28S ribosomal protein S12, mitochondrial
UniProt Synonym Protein Names	MT-RPS12
Protein Family	28S ribosomal protein
UniProt Gene Name	MRPS12
UniProt Synonym Gene Names	RPMS12; RPSM12; MRP-S12; S12mt
UniProt Entry Name	RT12_HUMAN
NCBI Protein Information	28S ribosomal protein S12, mitochondrial; S12mt; MRP-S12
NCBI Summary for MRPS12	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 S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5' UTR have been found for this gene; all three variants encode the same protein. [provided by RefSeq, Jul 2008]
UniProt Comments for MRPS12	MRPS12: 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 S12P family. The encoded protein is a key component of the ribosomal small subunit and controls the decoding fidelity and susceptibility to aminoglycoside antibiotics. The gene for mitochondrial seryl-tRNA synthetase is located upstream and adjacent to this gene, and both genes are possible candidates for the autosomal dominant deafness gene (DFNA4). Splice variants that differ in the 5' UTR have been found for this gene; all three variants encode the same protein. [provided by RefSeq, Jul 2008] Chromosomal Location of Human Ortholog: 19q13.1-q13.2 Cellular Component: small ribosomal subunit; mitochondrial inner membrane; mitochondrial ribosome Molecular Function: protein binding; structural constituent of ribosome Biological Process: mitochondrial translation; organelle organization and biogenesis
Research Articles on MRPS12	**1.** Observational study of gene-disease association. (HuGE Navigator)

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