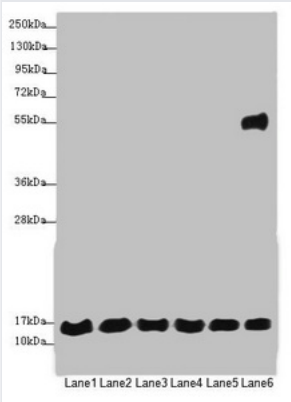
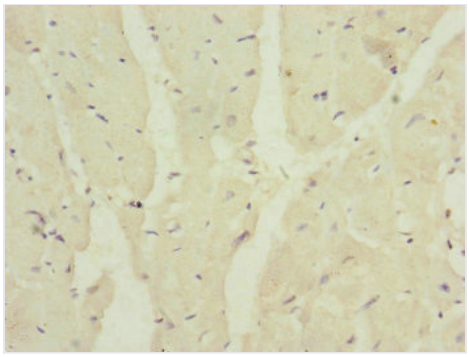
MRPS16 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MRPS16, Polyclonal Antibody
Full Product Name	MRPS16 Antibody
Product Gene Name	anti-MRPS16 antibody
Product Synonym Names	28S ribosomal protein S16, mitochondrial; MRP-S16; S16mt; MRPS16; RPMS16; CGI-132
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Antigen Affinity Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	13,829 Da
OMIM	609204
3D Structure	ModBase 3D Structure for Q9Y3D3
Species	Human
Immunogen	Recombinant human 28S ribosomal protein S16, mitochondrial protein (1-137AA)
Conjugate	Non-conjugated
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MRPS16 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-MRPS16 antibody	cytoplasm, mitochondrial inner membrane, mitochondrial small ribosomal subunit, mitochondrion, structural constituent of ribosome, mitochondrial translation, mitochondrial translational elongation, mitochondrial translational termination, translation
Other Notes	Small volumes of anti-MRPS16 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 MRPS16 purchase	MBS7044642 is an antibody targeting MRPS16. Also known as MRPS16 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-MRPS16 antibody
Western blotAll lanes: MRPS16 antibody at 1.12 ug/mlLane 1: 293T whole cell lysateLane 2: Jurkat whole cell lysateLane 3: Hela whole cell lysateLane 4: MCF7 whole cell lysateLane 5: Raji whole cell lysateLane 6: HepG-2 whole cell lysateSecondaryGoat polyclonal to rabbit IgG at 1/10000 dilutionPredicted band size: 16,14 kDaObserved band size: 15,55 kDa



Immunohistochemistry (IHC) of anti-MRPS16 antibody
Immunohistochemistry of paraffin-embedded human heart tissue using MBS7044642 at dilution of 1:100

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPS16. It may not necessarily be applicable to this product.

NCBI GI #	7705626
NCBI GeneID	51021
NCBI Accession #	NP_057149.1
UniProt Primary Accession #	Q9Y3D3
UniProt Secondary Accession #	Q96Q60; B4E032
UniProt Related Accession #	Q9Y3D3
GenBank Nucleotide #	NM_016065.3
NCBI Official Full Name	28S ribosomal protein S16, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein S16
NCBI Official Symbol	MRPS16
NCBI Official Synonym Symbols	COXPD2; RPMS16; CGI-132; MRP-S16
UniProt Protein Name	28S ribosomal protein S16, mitochondrial
Protein Family	28S ribosomal protein
UniProt Gene Name	MRPS16
UniProt Synonym Gene Names	RPMS16; MRP-S16; S16mt
UniProt Entry Name	RT16_HUMAN
NCBI Protein Information	28S ribosomal protein S16, mitochondrial
NCBI Summary for MRPS16	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 S16P family. The encoded protein is one of the most highly conserved ribosomal proteins between mammalian and yeast mitochondria. Three pseudogenes (located at 8q21.3, 20q13.32, 22q12-q13.1) for this gene have been described. [provided by RefSeq, Jul 2008]

UniProt Comments for MRPS16	MRPS16: Defects in MRPS16 are the cause of combined oxidative phosphorylation deficiency type 2 (COXPD2). Defects in the mitochondrial oxidative phosphorylation system result in devastating, mainly multisystem, diseases. COXPD2 symptoms include fatal neonatal metabolic acidosis with agenesis of the corpus callosum. Belongs to the ribosomal protein S16P family. Protein type: Ribosomal; Translation; Mitochondrial Chromosomal Location of Human Ortholog: 10q22.1 Cellular Component: cytoplasm; mitochondrial inner membrane; mitochondrial small ribosomal subunit; mitochondrion Molecular Function: protein binding; structural constituent of ribosome Biological Process: mitochondrial translation Disease: Combined Oxidative Phosphorylation Deficiency 2
Research Articles on MRPS16	**1.** Mutual effect of human ribosomal proteins S5 and S16 on their binding with 18S rRNA fragment 1203-1236/1521-1698
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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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/mrps16/7044642