MRPL22 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MRPL22, Blocking Peptide
Full Product Name	MRPL22 Peptide - middle region
Product Gene Name	MRPL22 blocking peptide
Product Synonym Gene Name	L22mt; RPML25; HSPC158; MRP-L22; MRP-L25
Sequence	Synthetic peptide located within the following region: ALWIHNLRSR GKLALGVLPQ SYIHTSASLD ISRKWEKKNK IVYPPQLPGE
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	MRPL22 peptide (MBS3247616) is used for blocking the activity of MRPL22 antibody (MBS3222962)
Molecular Weight	22 kDa
OMIM	611835
Product Categories/Family for MRPL22 blocking peptide	Peptide
Related Product Information for MRPL22 blocking peptide	This is a synthetic peptide designed for use in combination with anti- MRPL22 Antibody, made Target Description: 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 L22 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 4q. Two transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of MRPL22 blocking peptide 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 MRPL22 purchase	MBS3247616 is a blocking peptide targeting MRPL22. Also known as MRPL22 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL22. It may not necessarily be applicable to this product.

NCBI GI #	62530388
NCBI GeneID	29093
NCBI Accession #	NP_001014990.1
UniProt Primary Accession #	Q9NWU5
UniProt Related Accession #	Q9NWU5

GenBank Nucleotide #	NM_001014990.2
NCBI Official Full Name	39S ribosomal protein L22, mitochondrial isoform b
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L22
NCBI Official Symbol	MRPL22
NCBI Official Synonym Symbols	L22mt; RPML25; HSPC158; MRP-L22; MRP-L25
UniProt Protein Name	39S ribosomal protein L22, mitochondrial
UniProt Synonym Protein Names	39S ribosomal protein L25, mitochondrial
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL22
UniProt Synonym Gene Names	MRPL25; RPML25; L22mt; MRP-L22; L25mt; MRP-L25
UniProt Entry Name	RM22_HUMAN
NCBI Protein Information	39S ribosomal protein L22, mitochondrial
NCBI Summary for MRPL22	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 L22 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 4q. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for MRPL22	MRPL22: 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 that belongs to the L22 ribosomal protein family. A pseudogene corresponding to this gene is found on chromosome 4q. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Protein type: Translation Chromosomal Location of Human Ortholog: 5q33.2 Cellular Component: mitochondrion; mitochondrial inner membrane; large ribosomal subunit Molecular Function: structural constituent of ribosome Biological Process: mitochondrial translation; organelle organization and biogenesis
Research Articles on MRPL22	**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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