MRPL40 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	MRPL40, Blocking Peptide
Full Product Name	MRPL40 Blocking Peptide
Product Gene Name	MRPL40 blocking peptide
Product Synonym Names	NLVCF; URIM; 39S ribosomal protein L40, mitochondrial; L40mt; MRP-L40; Nuclear localization signal-containing protein deleted in velocardiofacial syndrome; Up-regulated in metastasis
Host	Synthetic
Species Reactivity	Human, Mouse
Form/Format	Lyophilized Powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	MRPL40 peptide (MBS8243951) is used for blocking the activity of MRPL40 antibody (MBS8242244)
Molecular Weight	24,490 Da
OMIM	605089
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for MRPL40 blocking peptide	Blocking (BL)
Application Notes for MRPL40 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for MRPL40 blocking peptide	MBS8243951 is a blocking peptide targeting MRPL40. Reactive in Human, Mouse. Host: Synthetic. The peptide is used to block Anti-MRPL40 Antibody reactivity.
Other Notes	Small volumes of MRPL40 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MRPL40. It may not necessarily be applicable to this product.

NCBI GI #	21263795
NCBI GeneID	64976
NCBI Accession #	Q9NQ50.1
UniProt Primary Accession #	Q9NQ50
UniProt Secondary Accession #	O95134; B3KVZ7
UniProt Related Accession #	Q9NQ50
NCBI Official Full Name	39S ribosomal protein L40, mitochondrial
NCBI Official Synonym Full Names	mitochondrial ribosomal protein L40

NCBI Official Symbol	MRPL40
NCBI Official Synonym Symbols	URIM; L40mt; NLVCF; MRPL22; MRP-L22; MRP-L40
UniProt Protein Name	39S ribosomal protein L40, mitochondrial
UniProt Synonym Protein Names	Nuclear localization signal-containing protein deleted in velocardiofacial syndrome; Up-regulated in metastasis
Protein Family	39S ribosomal protein
UniProt Gene Name	MRPL40
UniProt Synonym Gene Names	NLVCF; URIM; L40mt; MRP-L40
UniProt Entry Name	RM40_HUMAN
NCBI Protein Information	39S ribosomal protein L40, mitochondrial
NCBI Summary for MRPL40	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. Deletions in this gene may contribute to the etiology of velo-cardio-facial syndrome and DiGeorge syndrome. [provided by RefSeq, Jul 2008]
UniProt Comments for MRPL40	MRPL40: Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 22q11.2 Cellular Component: mitochondrial inner membrane; mitochondrial ribosome; mitochondrion; nucleolus; nucleus Molecular Function: protein binding Biological Process: anatomical structure morphogenesis; mitochondrial translation; organelle organization and biogenesis
Research Articles on MRPL40	**1.** Observational study of gene-disease association. (HuGE Navigator)
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