MMAA Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	MMAA, Blocking Peptide
Full Product Name	MMAA Antibody (N-term) Blocking Peptide
Product Gene Name	MMAA blocking peptide
Product Synonym Names	Methylmalonic aciduria type A protein; mitochondrial; 36--; MMAA
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	MMAA peptide (MBS9228409) is used for blocking the activity of MMAA antibody (MBS9210196)
Molecular Weight	46,538 Da
OMIM	251100
Cellular Location	Mitochondrion.
Tissue Location	Widely expressed. Highest expression is observed in liver and skeletal muscle
Related Product Information for MMAA blocking peptide	Probable GTPase. May function as chaperone. May be involved in the transport of cobalamin (Cbl) into mitochondria for the final steps of adenosylcobalamin (AdoCbl) synthesis.
Other Notes	Small volumes of MMAA 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 MMAA purchase	MBS9228409 is a blocking peptide targeting MMAA. Also known as MMAA Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	38258173
NCBI GeneID	166785
NCBI Accession #	Q8IVH4.1
UniProt Primary Accession #	Q8IVH4
UniProt Secondary Accession #	Q495G7; B3KX40
UniProt Related Accession #	Q8IVH4
NCBI Official Full Name	Methylmalonic aciduria type A protein, mitochondrial
NCBI Official Synonym Full Names	methylmalonic aciduria (cobalamin deficiency) cblA type
NCBI Official Symbol	MMAA
NCBI Official Synonym Symbols	cblA
UniProt Protein Name	Methylmalonic aciduria type A protein, mitochondrial
Protein Family	Methylmalonic aciduria
UniProt Gene Name	MMAA

UniProt Entry Name	MMAA_HUMAN
NCBI Protein Information	methylmalonic aciduria type A protein, mitochondrial
NCBI Summary for MMAA	The protein encoded by this gene is involved in the translocation of cobalamin into the mitochondrion, where it is used in the final steps of adenosylcobalamin synthesis. Adenosylcobalamin is a coenzyme required for the activity of methylmalonyl-CoA mutase. Defects in this gene are a cause of methylmalonic aciduria. [provided by RefSeq, Jul 2008]
UniProt Comments for MMAA	MMAA: Probable GTPase. May function as chaperone. May be involved in the transport of cobalamin (Cbl) into mitochondria for the final steps of adenosylcobalamin (AdoCbl) synthesis. Defects in MMAA are the cause of methylmalonic aciduria type cblA (MMAA); also known as methylmalonic aciduria type A or vitamin B12-responsive methylmalonicaciduria of cblA complementation type. MMAA is a disorder of methylmalonate and cobalamin metabolism due to defective synthesis of adenosylcobalamin. Inheritance is autosomal recessive. Belongs to the ArgK family. Protein type: EC 3.6.-.-; Chaperone Chromosomal Location of Human Ortholog: 4q31.21 Cellular Component: mitochondrial matrix Biological Process: cobalamin metabolic process; short-chain fatty acid catabolic process Disease: Methylmalonic Aciduria, Cbla Type
Research Articles on MMAA	**1.** Ten novel mutational MMAA variants have been identified in patients with methylmalonic aciduria.
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