MMACHC Blocking Peptide

PRODUCT OVERVIEW

Product Name	MMACHC, Blocking Peptide
Full Product Name	MMACHC Blocking Peptide
Product Gene Name	MMACHC blocking peptide
Product Synonym Names	1810037K07Rik; BOS_3654; cblC; DKFZp564I122; FLJ25671; Methylmalonic aciduria (cobalamin deficiency) cblC type with homocystinuria; Methylmalonic aciduria and homocystinuria type C protein; Methylmalonic aciduria and homocystinuria type C protein homolog;
Antibody/Peptide Pairs	MMACHC peptide (MBS9631815) is used for blocking the activity of MMACHC antibody (MBS9629432)
Molecular Weight	31,728 Da
OMIM	277400
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for MMACHC blocking peptide	MBS9631815 is a blocking peptide targeting MMACHC.
Other Notes	Small volumes of MMACHC 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 MMACHC. It may not necessarily be applicable to this product.

NCBI GI #	153070822
NCBI GeneID	25974
NCBI Accession #	NP_056321.2
UniProt Primary Accession #	Q9Y4U1
UniProt Secondary Accession #	Q5T157; Q9BRQ7
UniProt Related Accession #	Q9Y4U1
GenBank Nucleotide #	NM_015506.2
NCBI Official Full Name	methylmalonic aciduria and homocystinuria type C protein
NCBI Official Synonym Full Names	methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria
NCBI Official Symbol	MMACHC
NCBI Official Synonym Symbols	cblC
UniProt Protein Name	Methylmalonic aciduria and homocystinuria type C protein
Protein Family	Methylmalonic aciduria and homocystinuria type C protein
UniProt Gene Name	MMACHC

UniProt Entry Name	MMAC_HUMAN
NCBI Protein Information	methylmalonic aciduria and homocystinuria type C protein
NCBI Summary for MMACHC	The exact function of the protein encoded by this gene is not known, however, its C-terminal region shows similarity to TonB, a bacterial protein involved in energy transduction for cobalamin (vitamin B12) uptake. Hence, it is postulated that this protein may have a role in the binding and intracellular trafficking of cobalamin. Mutations in this gene are associated with methylmalonic aciduria and homocystinuria type cblC. [provided by RefSeq, Oct 2009]
UniProt Comments for MMACHC	MMACHC: May be involved in the binding and intracellular trafficking of cobalamin (vitamin B12). Defects in MMACHC are the cause of methylmalonic aciduria and homocystinuria type cblC (MMAHCC). A disorder of cobalamin metabolism characterized by decreased levels of the coenzymes adenosylcobalamin (AdoCbl) and methylcobalamin (MeCbl). Affected individuals may have developmental, hematologic, neurologic, metabolic, ophthalmologic, and dermatologic clinical findings. Although considered a disease of infancy or childhood, some individuals develop symptoms in adulthood. Belongs to the MMACHC family. Protein type: Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 1p34.1 Cellular Component: mitochondrion; cytosol Molecular Function: protein binding; cobalamin binding Biological Process: vitamin metabolic process; cobalamin metabolic process; cobalamin biosynthetic process; water-soluble vitamin metabolic process Disease: Methylmalonic Aciduria And Homocystinuria, Cblc Type
Research Articles on MMACHC	**1.** HCFC1 plays a role in craniofacial development, which is in part mediated through the regulation of MMACHC expression
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