MMACHC Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	MMACHC, Blocking Peptide
Full Product Name	MMACHC Peptide - C-terminal region
Product Gene Name	MMACHC blocking peptide
Product Synonym Gene Name	DKFZp564I122; FLJ25671; RP11-291L19.3; cblC
Sequence	IALLEGFNFH WRDWTYRDAV TPQERYSEEQ KAYFSTPPAQ RLALLGLAQP
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	MMACHC peptide (MBS3240226) is used for blocking the activity of MMACHC antibody (MBS3215323)
Molecular Weight	31kDa
OMIM	277400
Product Categories/Family for MMACHC blocking peptide	Peptide
Applications Tested/Suitable for MMACHC blocking peptide	Western Blot (WB)
Related Product Information for MMACHC blocking peptide	This is a synthetic peptide designed for use in combination with anti-MMACHC Antibody, made Target Description: 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.
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.
Searchable Terms for MMACHC purchase	MBS3240226 is a blocking peptide targeting MMACHC. Also known as MMACHC Peptide - C-terminal region. Reactive in Human.

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
UniProt Primary Accession #	Q9Y4U1
UniProt Related Accession #	Q9Y4U1
GenBank Nucleotide #	NM_015506
NCBI Official Full Name	methylmalonic aciduria and homocystinuria type C protein isoform 1

NCBI Official Synonym Full Names	metabolism of cobalamin associated C
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.** The epimutation is present in three generations and results from PRDX1 mutations that force antisense transcription of MMACHC.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-blocking-peptide/mmachc/3240226