

MMADHC Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18061b**Specification**

MMADHC Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q9H3L0](#)**MMADHC Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 27249**Other Names**

Methylmalonic aciduria and homocystinuria type D protein, mitochondrial, MMADHC, C2orf25, CL25022

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MMADHC Antibody (C-term) Blocking Peptide - Protein Information**Name** MMADHC ([HGNC:25221](#))**Synonyms** C2orf25, CL25022**Function**

Involved in cobalamin metabolism and trafficking (PubMed: [18385497](http://www.uniprot.org/citations/18385497), PubMed: [23415655](http://www.uniprot.org/citations/23415655), PubMed: [24722857](http://www.uniprot.org/citations/24722857), PubMed: [26364851](http://www.uniprot.org/citations/26364851)). Plays a role in regulating the biosynthesis and the proportion of two coenzymes, methylcob(III)alamin (MeCbl) and 5'-deoxyadenosylcobalamin (AdoCbl) (PubMed: [18385497](http://www.uniprot.org/citations/18385497), PubMed: [23415655](http://www.uniprot.org/citations/23415655), PubMed: [24722857](http://www.uniprot.org/citations/24722857)). Promotes oxidation of cob(II)alamin bound to MMACHC (PubMed: [26364851](http://www.uniprot.org/citations/26364851)). The processing of cobalamin in the cytosol occurs in a multiprotein complex composed of at least MMACHC, MMADHC, MTRR (methionine synthase reductase) and MTR (methionine synthase) which may contribute to shuttle safely and efficiently cobalamin towards MTR in order to produce

methionine (PubMed:27771510).

Cellular Location

Cytoplasm. Mitochondrion

Tissue Location

Widely expressed at high levels.

MMADHC Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

MMADHC Antibody (C-term) Blocking Peptide - Images**MMADHC Antibody (C-term) Blocking Peptide - Background**

This gene encodes a mitochondrial protein that is involved in an early step of vitamin B12 metabolism. Vitamin B12 (cobalamin) is essential for normal development and survival in humans. Mutations in this gene cause methylmalonic aciduria and homocystinuria type cblD (MMADHC), a disorder of cobalamin metabolism that is characterized by decreased levels of the coenzymes adenosylcobalamin and methylcobalamin. Pseudogenes have been identified on chromosomes 11 and X.

MMADHC Antibody (C-term) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Coelho, D., et al. N. Engl. J. Med. 358(14):1454-1464(2008)