

**MMADHC Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18061B****Specification**

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**MMADHC Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q9H3L0</a>
Other Accession	<a href="#">Q6AYQ6</a> , <a href="#">Q99LS1</a> , <a href="#">NP_056517.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	32940
Antigen Region	226-253

**MMADHC Antibody (C-term) - Additional Information****Gene ID** 27249**Other Names**

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

**Target/Specificity**

This MMADHC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 226-253 amino acids from the C-terminal region of human MMADHC.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

MMADHC Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MMADHC Antibody (C-term) - Protein Information****Name** MMADHC ([HGNC:25221](#))

**Synonyms** C2orf25, CL25022

**Function** Involved in cobalamin metabolism and trafficking (PubMed:[18385497](#), PubMed:[23415655](#), PubMed:[24722857](#), PubMed:[26364851](#)). Plays a role in regulating the biosynthesis and the proportion of two coenzymes, methylcob(III)alamin (MeCbl) and 5'-deoxyadenosylcobalamin (AdoCbl) (PubMed:[18385497](#), PubMed:[23415655](#), PubMed:[24722857](#)). Promotes oxidation of cob(II)alamin bound to MMACHC (PubMed:[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**

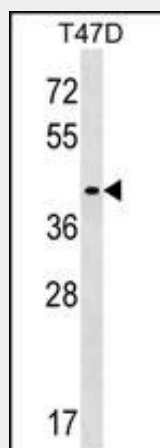
Widely expressed at high levels.

**MMADHC Antibody (C-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MMADHC Antibody (C-term) - Images**



MMADHC Antibody (C-term) (Cat. #AP18061b) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the MMADHC antibody detected the MMADHC protein (arrow).

**MMADHC Antibody (C-term) - 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) - 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)