

For Research Use Only

# MMADHC Polyclonal antibody

Catalog Number: 23191-1-AP



## Basic Information

<b>Catalog Number:</b> 23191-1-AP	<b>GenBank Accession Number:</b> BC022859	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 27249	<b>Recommended Dilutions:</b> WB 1:1000-1:5000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9H3LO	
<b>Isotype:</b> IgG	<b>Full Name:</b> methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria	
<b>Immunogen Catalog Number:</b> AG19343	<b>Calculated MW:</b> 296 aa, 33 kDa	
	<b>Observed MW:</b> 33 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HEK-293 cells, HeLa cells, MCF-7 cells, NIH3T3 cells

IHC : human skeletal muscle tissue, human heart tissue, human pancreas tissue

## Background Information

MMADHC is 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. MMADHC is a 296-amino acids (32.9 kDa) protein with an N-terminal disordered region (amino acids 1-107) containing a potential mitochondrial leader sequence (MLS; amino acids 1-12), and a C-terminal Nitro Reductase-like domain (NTR; amino acids 108-296). 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.

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

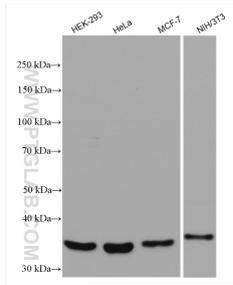
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 23191-1-AP (MMADHC antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 23191-1-AP (MMADHC Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue slide using 23191-1-AP (MMADHC Antibody) at dilution of 1:200 (under 40x lens).