

MMACHC Polyclonal antibody

Catalog Number: 21462-1-AP

Basic Information

Catalog Number:

21462-1-AP

Size:

400 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG15001

GenBank Accession Number:

BC006122

GeneID (NCBI):

25974

UNIPROT ID:

Q9Y4U1

Full Name:

methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria

Calculated MW:

282 aa, 32 kDa

Observed MW:

32 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human, mouse, rat

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: Raji cells, HeLa cells

IHC: human liver tissue,

Background Information

MMACHC, also named as CblC, is located on chromosome 1 and comprises four coding exons. Human MMACHC catalyzes the reductive decyanation of cyanocobalamin and may serve as a trafficking chaperone for intracellular cobalamin. It also catalyzes the glutathione-dependent reductive demethylation of methylcobalamin, and, with much lower efficiency, the glutathione-dependent reductive demethylation of adenosylcobalamin. MMACHC binds cyanocobalamin, adenosylcobalamin, methylcobalamin and other, related vitamin B12 derivatives.

Storage

Storage:

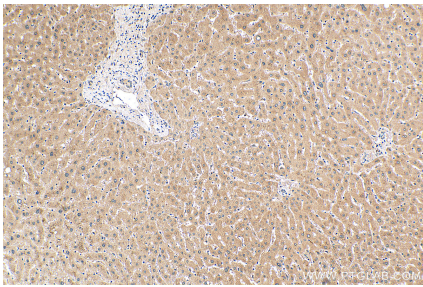
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

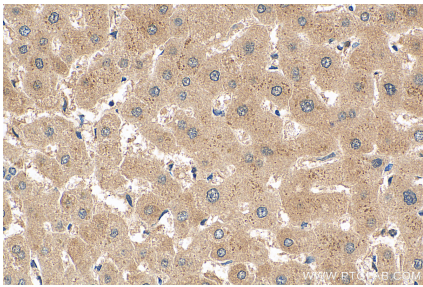
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

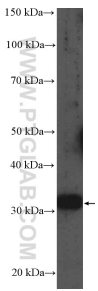
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 21462-1-AP (MMACHC antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 21462-1-AP (MMACHC antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Raji cells were subjected to SDS PAGE followed by western blot with 21462-1-AP (MMACHC Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.