

For Research Use Only

MMACHC Polyclonal antibody

Catalog Number: 21462-1-AP



Basic Information

Catalog Number: 21462-1-AP	GenBank Accession Number: BC006122	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 ug/ml by Nanodrop and 240 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 25974	Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9Y4U1	
Isotype: IgG	Full Name: methylmalonic aciduria (cobalamin deficiency) cblC type, with homocystinuria	
Immunogen Catalog Number: AG15001	Calculated MW: 282 aa, 32 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : Raji cells, HeLa cells IHC : human liver tissue,
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	

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

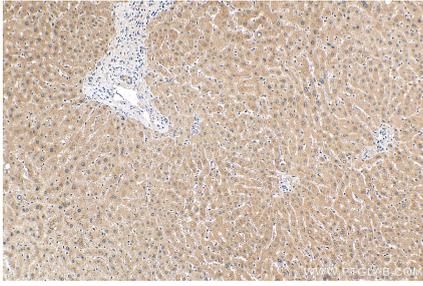
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

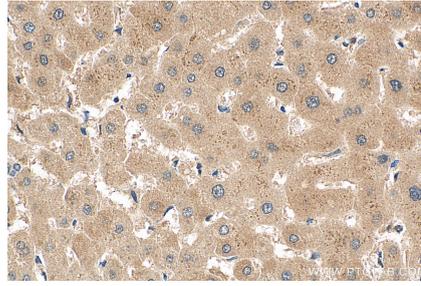
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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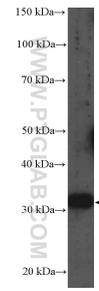
Selected Validation Data



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.