For Research Use Only

MMACHC Monoclonal antibody

Catalog Number:66609-1-lg 2 Publications



Basic Information

Catalog Number:

GenBank Accession Number:

Purification Method:

66609-1-lg

BC006122

Protein A purification

Size:

GeneID (NCBI):

CloneNo.:

150ul, Concentration: 900 ug/ml by

4G10A11

Nanodrop and 907 ug/ml by Bradford $\,$ UNIPROT ID:

Recommended Dilutions:

method using BSA as the standard;

Q9Y4U1

WB 1:5000-1:50000

Source: Mouse

Full Name:

IF/ICC 1:200-1:800

Isotype:

methylmalonic aciduria (cobalamin deficiency) cblC type, with

homocystinuria

lgG1

Calculated MW:

Immunogen Catalog Number: AG15001

282 aa, 32 kDa

Applications

Tested Applications:

WB, IF/ICC, FC (Intra), ELISA

Cited Applications:

WB

Positive Controls:

WB: HepG2 cells, K-562 cells, HEK-293 cells, HeLa

cells, Raji cells, RAW 264.7 cells

IF/ICC: HepG2 cells,

Species Specificity: human, mouse **Cited Species:** human, rat

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. NMACHC binds $cyano cobalamin, adeno sylcobalamin, methyl cobalamin and other, related vitamin B12\ derivatives.$

Notable Publications

Author	Pubmed ID	Journal	Application
Lingzhi Wang	35131382	Cancer Lett	WB
Wenjie Hu	37843800	Mol Neurobiol	WB

Storage

Storage:

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

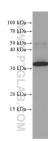
Storage Buffer:

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

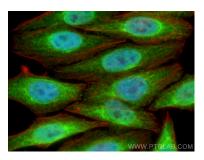
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

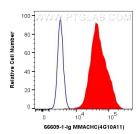
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 66609-1-1g (MMACHC antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using MMACHC antibody (66609-1-lg, Clone: 4G10A11) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



1X10^6 HeLa cells were intracellularly stained with 0.8 ug Anti-Human MMACHC (66609-1-1g, Clone:4G10A11) and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.8 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-1g, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).