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MCCC2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6924c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q9HCC0
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	61333
Antigen Region	163-189

Additional Information

Gene ID	64087
Other Names	Methylcrotonoyl-CoA carboxylase beta chain, mitochondrial, MCCase subunit beta, 3-methylcrotonyl-CoA carboxylase 2, 3-methylcrotonyl-CoA carboxylase non-biotin-containing subunit, 3-methylcrotonyl-CoA:carbon dioxide ligase subunit beta, MCCC2, MCCB
Target/Specificity	This MCCC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 163-189 amino acids from the Central region of human MCCC2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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	MCCC2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MCCC2
Synonyms	MCCB

Function	Carboxyltransferase subunit of the 3-methylcrotonyl-CoA carboxylase, an enzyme that catalyzes the conversion of 3- methylcrotonyl-CoA to 3-methylglutaconyl-CoA, a critical step for leucine and isovaleric acid catabolism.
Cellular Location	Mitochondrion matrix

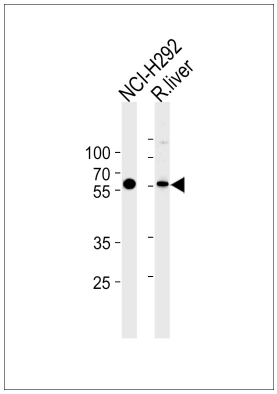
Background

MCCC2 is the small subunit of 3-methylcrotonyl-CoA carboxylase. This enzyme functions as a heterodimer and catalyzes the carboxylation of 3-methylcrotonyl-CoA to form 3-methylglutaconyl-CoA.

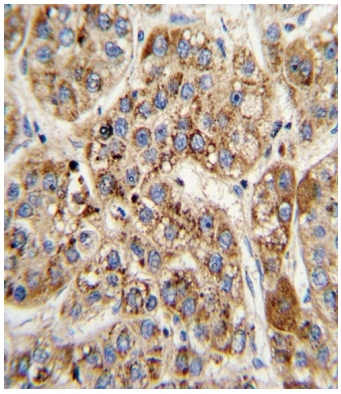
References

Uematsu,M., et.al., J. Hum. Genet. 52 (12), 1040-1043 (2007)

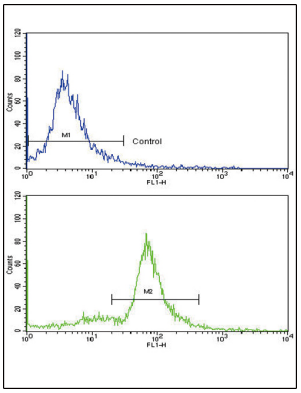
Images



MCCC2 Antibody (Center) (Cat. #AP6924c) western blot analysis in NCI-H292 cell line and rat liver tissue lysates (35ug/lane).This demonstrates the MCCC2 antibody detected the MCCC2 protein (arrow).



Formalin-fixed and paraffin-embedded human hepatocarcinoma with MCCC2 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of ATDC5 cells using MCCC2 Antibody (Center) (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.