

# MCCC2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5273

#### **Product Information**

Application IHC-P, FC, WB Primary Accession Q9HCC0

**Reactivity** Mouse, Rat, Human

Predicted Mouse
Host Rabbit
Clonality Polyclonal
Calculated MW 61333
Isotype Rabbit IgG
Antigen Source HUMAN

#### **Additional Information**

**Gene ID** 64087

Antigen Region 163-189

Other Names MCCC2; MCCB; Methylcrotonoyl-CoA carboxylase beta chain, mitochondrial;

3-methylcrotonyl-CoA carboxylase 2; 3-methylcrotonyl-CoA carboxylase non-biotin-containing subunit; 3-methylcrotonyl-CoA:carbon dioxide ligase

subunit beta

**Dilution** IHC-P~~1:100~500 FC~~1:10~50 WB~~ 1:1000

**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.

**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

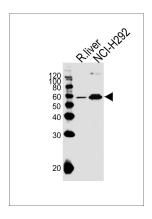
## **Background**

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.

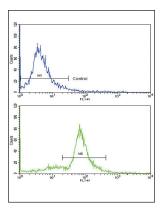
#### References

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

### **Images**

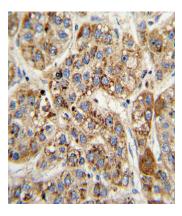


Western blot analysis of lysates from rat liver tissue and NCI-H292 cell line (from left to right), using MCCC2 Antibody (Center)(Cat. #AW5273). AW5273 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



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.

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.



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