10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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

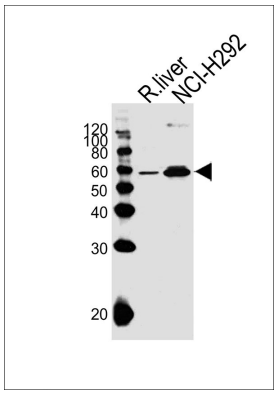
Background

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.

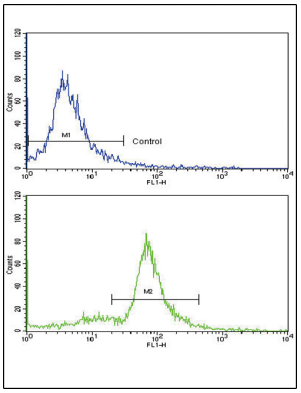
References

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

Images

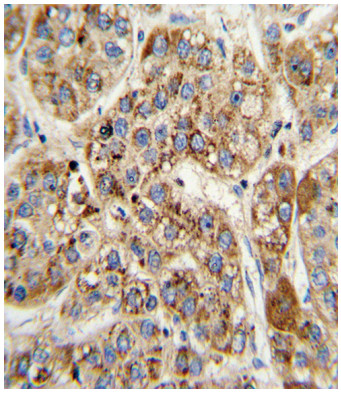


Western blot analysis of lysates from rat liver tissue and NCI-H292 cell line (from left to right), using MCCC2 Antibody (Center)(Cat. #AW5273). AW5273 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



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.



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