

Datasheet for ABIN7158953
anti-MLYCD antibody (AA 40-493)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	MLYCD
Binding Specificity:	AA 40-493
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MLYCD antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Malonyl-CoA decarboxylase, mitochondrial protein (40-493AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	MLYCD
Alternative Name:	MLYCD (MLYCD Products)
Background:	Background: Catalyzes the conversion of malonyl-CoA to acetyl-CoA. In the fatty acid biosynthesis MCD selectively removes malonyl-CoA and thus assures that methyl-malonyl-CoA

Target Details

is the only chain elongating substrate for fatty acid synthase and that fatty acids with multiple methyl side chains are produced. In peroxisomes it may be involved in degrading intraperoxisomal malonyl-CoA, which is generated by the peroxisomal beta-oxidation of odd chain-length dicarboxylic fatty acids. Plays a role in the metabolic balance between glucose and lipid oxidation in muscle independent of alterations in insulin signaling. May play a role in controlling the extent of ischemic injury by promoting glucose oxidation.

Aliases: DCMC_HUMAN antibody, hMCD antibody, Malonyl CoA decarboxylase antibody, Malonyl CoA decarboxylase mitochondrial antibody, Malonyl coenzyme A decarboxylase antibody, Malonyl-CoA decarboxylase antibody, MCD antibody, MGC59795 antibody, mitochondrial antibody, Mlycd antibody

UniProt: [O95822](#)

Pathways: [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Application Notes: Recommended dilution: WB:1:2000-1:5000, IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

Handling

Format: Liquid

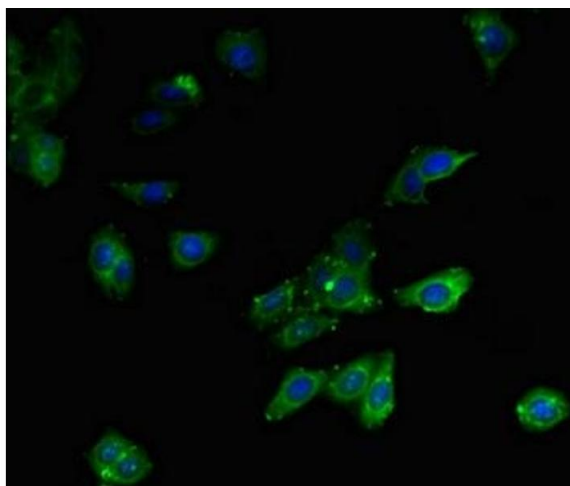
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

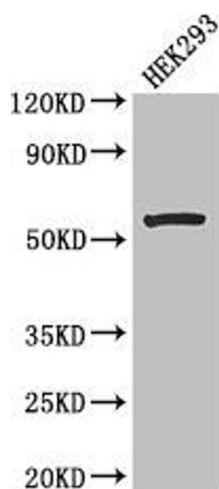
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



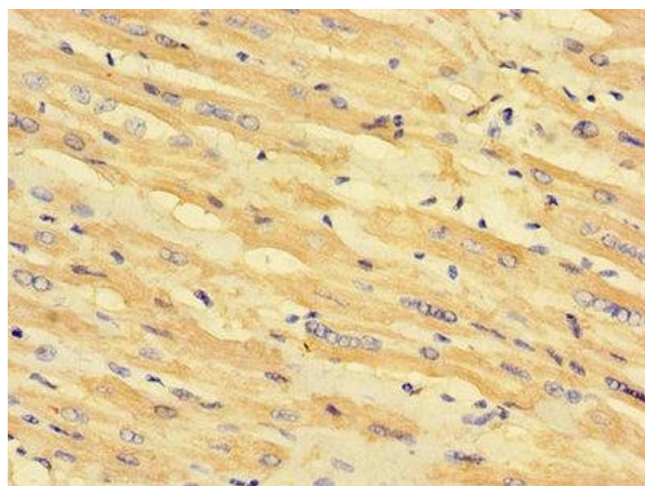
Immunofluorescence

Image 1. Immunofluorescent analysis of HepG2 cells using ABIN7158953 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Western Blotting

Image 2. Western Blot Positive WB detected in: HEK293 whole cell lysate All lanes: MLYCD antibody at 2.7 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 56, 51 kDa Observed band size: 56 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human heart tissue using ABIN7158953 at dilution of 1:100