

Datasheet for ABIN1098143  
**anti-ACLY antibody (AA 306-502)**[Go to Product page](#)

7 Images

2 Publications

## Overview

Quantity:	0.1 mg
Target:	ACLY
Binding Specificity:	AA 306-502
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Purified recombinant fragment of human ACLY (AA: 306-502 ) expressed in E. coli.
Clone:	5F8D11
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	ACLY
Alternative Name:	ACLY ( <a href="#">ACLY Products</a> )
Background:	Description: ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA and

## Target Details

oxaloacetate from citrate and CoA with a concomitant hydrolysis of ATP to ADP and phosphate. The product, acetyl-CoA, serves several important biosynthetic pathways, including lipogenesis and cholesterologenesis. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. Two transcript variants encoding distinct isoforms have been identified for this gene. , , ,

Aliases: ACL, ATPCL, CLATP

Molecular Weight: 125 kDa

Gene ID: 47

HGNC: 47

Pathways: [Warburg Effect](#)

## Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: 1:200 - 1:1000, ICC: 1:50, FCM: 1:200 - 1:400

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Purified antibody in PBS with 0.05 % sodium azide

Preservative: Sodium azide

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

Storage: 4 °C/-20 °C

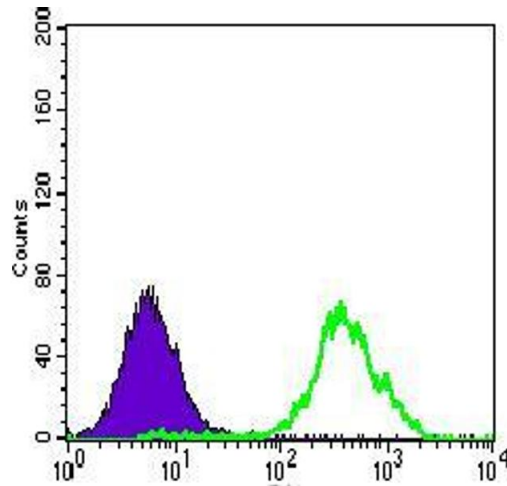
Storage Comment: 4°C, -20°C for long term storage

## Publications

Product cited in: Chu, Lin, Hendel, Kulpa, Brownsey, Johnson: "ATP-citrate lyase reduction mediates palmitate-induced apoptosis in pancreatic beta cells." in: **The Journal of biological chemistry**, Vol. 285, Issue 42, pp. 32606-15, (2010) ([PubMed](#)).

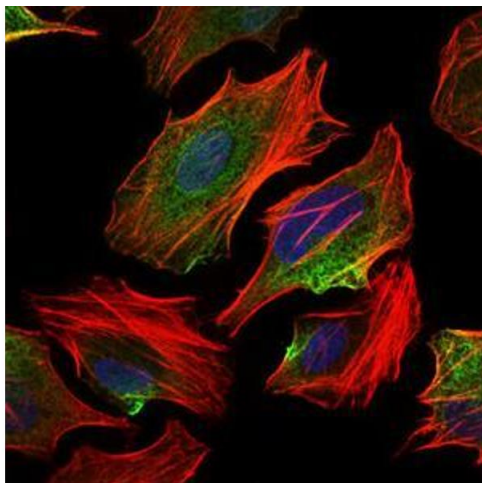
Beckner, Fellows-Mayle, Zhang, Agostino, Kant, Day, Pollack: "Identification of ATP citrate lyase as a positive regulator of glycolytic function in glioblastomas." in: **International journal of**

## Images



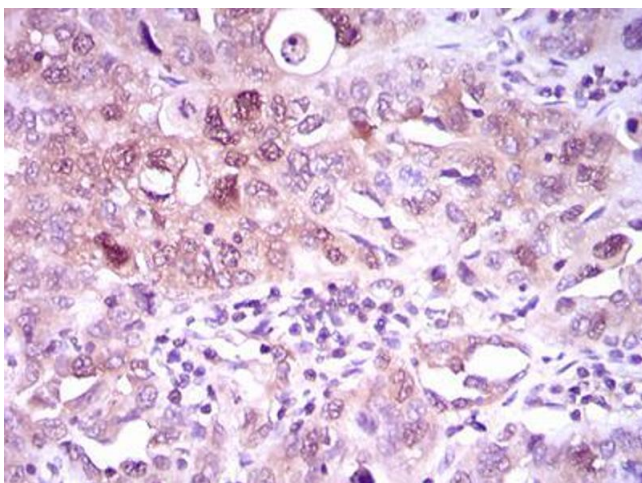
### Flow Cytometry

**Image 1.** Flow cytometric analysis of HeLa cells using ACLY mouse mAb (green) and negative control (purple).



### Immunofluorescence

**Image 2.** Immunofluorescence analysis of HeLa cells using ACLY mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



### Immunohistochemistry

**Image 3.** Immunohistochemical analysis of paraffin-embedded endometrial cancer tissues using ACLY mouse mAb with DAB staining.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN1098143.