Datasheet for ABIN7127352

# Recombinant anti-ACLY antibody

3 Images

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## Overview

| | |
|---|---|
| Quantity: | 100 µL |
| Target: | ACLY |
| Reactivity: | Human |
| Host: | Rabbit |
| Antibody Type: | Recombinant Antibody |
| Clonality: | Monoclonal |
| Conjugate: | This ACLY antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS) |

## Product Details

| | |
|---|---|
| Immunogen: | A synthesized peptide derived from human ATP citrate lyase |
| Clone: | 3A5 |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | Affinity-chromatography |

## Target Details

| | |
|---|---|
| Target: | ACLY |
| Alternative Name: | ACLY (ACLY Products) |
| Background: | Background: ATP-citrate synthase is the primary enzyme responsible for the synthesis of |

## Target Details

| | |
|---|---|
| | cytosolic acetyl-CoA in many tissues. Has a central role in de novo lipid synthesis. In nervous tissue it may be involved in the biosynthesis of acetylcholine.<br>Aliases: ATP-citrate synthase (EC 2.3.3.8) (ATP-citrate (pro-S-)-lyase) (ACL) (Citrate cleavage enzyme), ACLY |
| UniProt: | P53396 |
| Pathways: | Warburg Effect |

## Application Details

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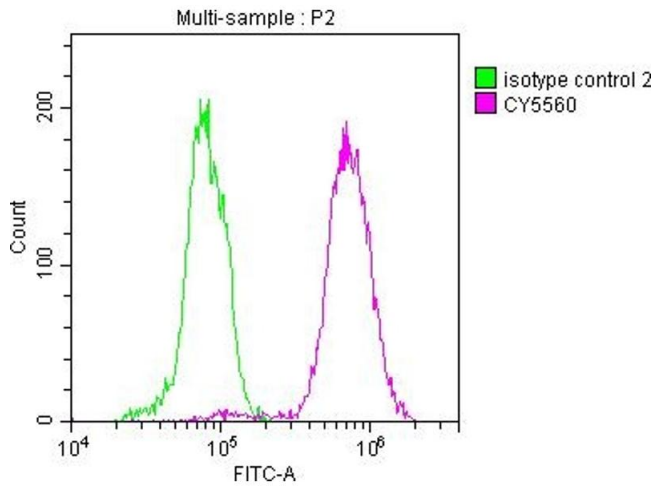
|---|---|
| Application Notes: | Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200, FC:1:20-1:200, |
| Restrictions: | For Research Use only |

## Handling

| | |
|---|---|
| Format: | Liquid |
| Buffer: | Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. |
| 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: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

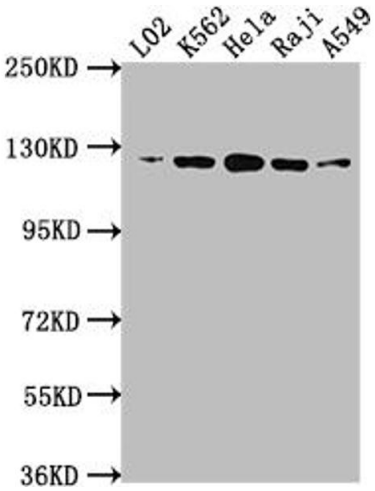
## Images




**Flow Cytometry**

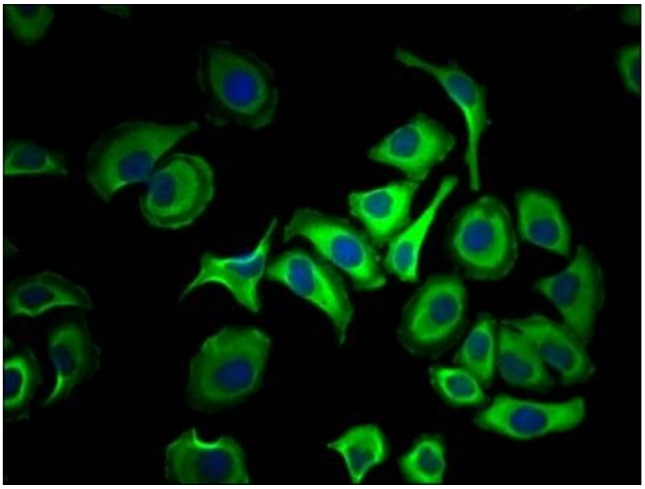
**Image 1.** Overlay histogram showing Hela cells stained with ABIN7127352 (red line) at 1:50. The cells were fixed with 70 % Ethylalcohol (18h) and then incubated in 10 % normal goat serum to block non-specific protein-protein interactions followedby the antibody (1 µg/1*106cells) for 1 h at 4 °C.The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30 min at 4 °C. Control antibody (green line) was Rabbit IgG

(1 µg/1*106cells) used under the same conditions. Acquisition of >10,000 events was performed.




## Western Blotting

**Image 2.** Western Blot Positive WB detected in: L02 whole cell lysate, K562 whole cell lysate, Hela whole cell lysate, Raji whole cell lysate, A549 whole cell lysate All lanes: ACLY antibody at 1:1500 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 121, 120, 92 kDa Observed band size: 120 kDa



## Immunofluorescence

**Image 3.** Immunofluorescence staining of HepG2 Cells with ABIN7127352 at 1:50, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeated by 0.2 % TritonX-100, and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).