

# Anti-ATP citrate lyase ACLY Rabbit Monoclonal Antibody

Catalog # ABO14239

## Product Information

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC, IF, ICC, IP, FC                                                                                                                                          |
| <b>Primary Accession</b> | <a href="#">P53396</a>                                                                                                                                            |
| <b>Host</b>              | Rabbit                                                                                                                                                            |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                                                        |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                                                                                 |
| <b>Clonality</b>         | Monoclonal                                                                                                                                                        |
| <b>Format</b>            | Liquid                                                                                                                                                            |
| <b>Description</b>       | Anti-ATP citrate lyase ACLY Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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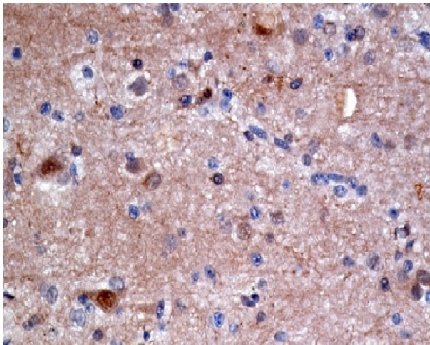
|                                 |                                                                                                                                            |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 47                                                                                                                                         |
| <b>Other Names</b>              | ATP-citrate synthase, 2.3.3.8, ATP-citrate (pro-S-)-lyase, ACL, Citrate cleavage enzyme, ACLY                                              |
| <b>Calculated MW</b>            | 120839                                                                                                                                     |
| <b>Application Details</b>      | WB 1:1000-1:10000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:50                                                             |
| <b>Subcellular Localization</b> | Cytoplasm.                                                                                                                                 |
| <b>Source</b>                   | Eukaryota                                                                                                                                  |
| <b>Contents</b>                 | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                        |
| <b>Clone Names</b>              | Clone: ECF-1                                                                                                                               |
| <b>Immunogen</b>                | A synthesized peptide derived from human ATP citrate lyase                                                                                 |
| <b>Purification</b>             | Affinity-chromatography                                                                                                                    |
| <b>Storage</b>                  | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles. |

## Protein Information

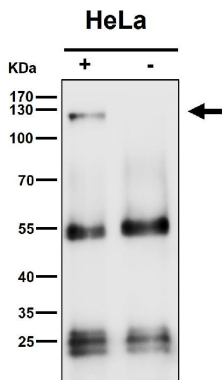
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|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | ACLY                                                                                                                                                                                        |
| Function          | Catalyzes the cleavage of citrate into oxaloacetate and acetyl-CoA, the latter serving as common substrate in multiple biochemical reactions in protein, carbohydrate and lipid metabolism. |
| Cellular Location | Cytoplasm, cytosol.                                                                                                                                                                         |

Images



Immunohistochemical analysis of paraffin-embedded human brain carcinoma, using ATP citrate lyase Antibody .



Immunoprecipitate (IP) analysis using the Antibody at 1:50 dilution. (wb at 1:3K dilution)

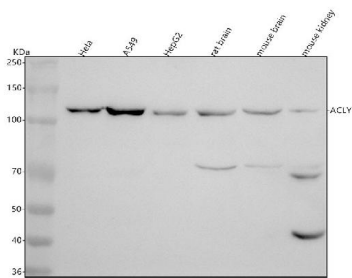


Figure 1. Western blot analysis of ACLY using anti-ACLY antibody (M02372). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Hela whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: human HepG2 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse brain tissue lysates, Lane 6: mouse kidney tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ACLY antigen affinity purified monoclonal antibody (Catalog # M02372) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200

system. A specific band was detected for ACLY at approximately 121 kDa. The expected band size for ACLY is at 121 kDa.

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