[KO Validated] ACLY Rabbit mAb

ABclonal

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Catalog No.: A3719 KO Validated Recombinant 3 Publications

Basic Information

Observed MW

121 kDa/125 kDa

Calculated MW

121 kDa

Category

Primary antibody

Applications

WB,IF/ICC,IP,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0281

Background

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 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 cholesterogenesis. In nervous tissue, ATP citrate-lyase may be involved in the biosynthesis of acetylcholine. Multiple transcript variants encoding distinct isoforms have been identified for this gene.

Recommended Dilutions

WB 1:1000 - 1:6000

1:50 - 1:200 IF/ICC

0.5μg-4μg antibody for ΙP

200µg-400µg extracts of

whole cells

ELISA Recommended starting

concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID Swiss Prot P53396

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

ACL; ATPCL; CLATP; ACLY

Contact

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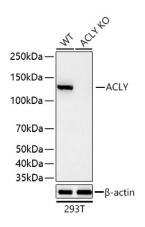
Product Information

Source	Isotype	Purification
Rabbit	IgG	Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

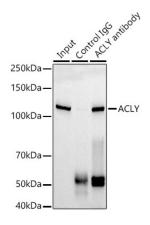


Western blot analysis of lysates from wild type (WT) and ACLY knockout (KO) 293T cells using [KO Validated] ACLY Rabbit mAb (A3719) at 1:2000 dilution incubated overnight at $4\,^{\circ}\text{C}$. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25 μg per lane.

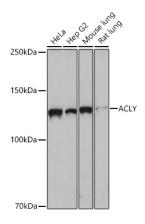
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20 s.



Immunoprecipitation analysis of 300 μg extracts from Hep G2 cells using 3 μg [KO Validated] ACLY Rabbit mAb (A3719). Western blot was performed from the immunoprecipitate using [KO Validated] ACLY Rabbit mAb (A3719) at a dilution of 1:1000.



Western blot analysis of various lysates using [KO Validated] ACLY Rabbit mAb (A3719) at 1:1000 dilution incubated overnight at 4° C.

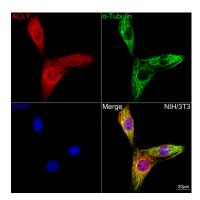
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

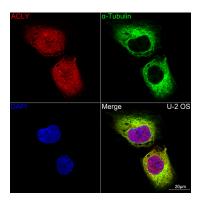
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 3 s.



Confocal imaging of NIH/3T3 cells using [KO Validated] ACLY Rabbit mAb (A3719,dilution 1:100)(Red). The cells were counterstained with $\alpha\textsc{-}$ Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Confocal imaging of U-2 OS cells using [KO Validated] ACLY Rabbit mAb (A3719,dilution 1:100)(Red). The cells were counterstained with $\alpha\textsc{-}Tubulin$ Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.