A3719

Leader in Biomolecular Solutions for Life Science

www.abclonal.com

ACLY Rabbit mAb

Catalog No.: A3719 Recombinant 2 Publications

Basic Information

Observed MW
125kDa

Calculated MW
121kDa

Category
SMab Recombinant Monoclonal 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
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 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
47

Swiss Prot
P53396

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 1000-1101 of human ACLY (P53396).

Synonyms
ACL; ATPCL; CLATP; ACLY

Product Information

Source
Rabbit

Isotype
IgG

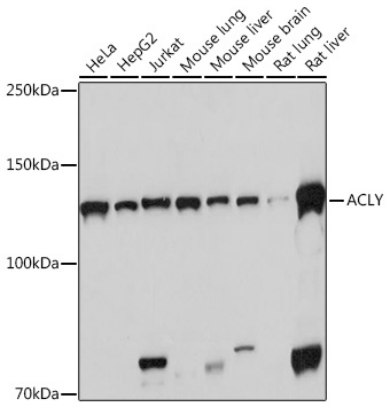
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

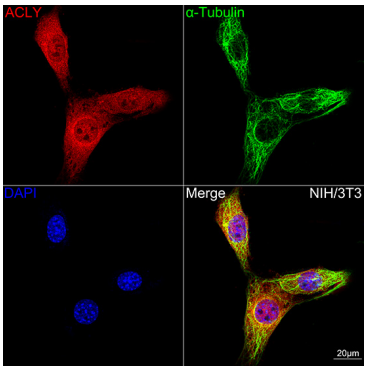
Contact

www.abclonal.com

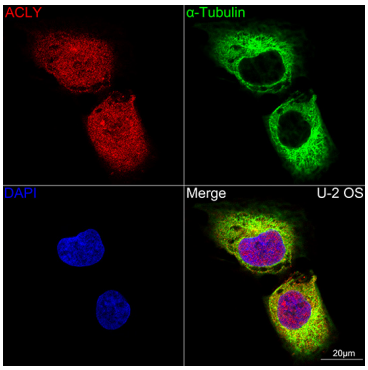
Validation Data



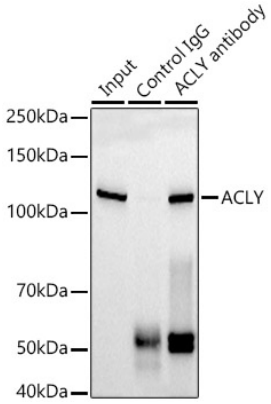
Western blot analysis of various lysates using ACLY Rabbit mAb (A3719) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 3s.



Confocal imaging of NIH/3T3 cells using ACLY Rabbit mAb (A3719,dilution 1:100)(Red). The cells were counterstained with α-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 ACLY Rabbit mAb (A3719,dilution 1:100)(Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012,dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunoprecipitation analysis of 300 µg extracts from HepG2 cells using 3 µg ACLY antibody (A3719). Western blot was performed from the immunoprecipitate using ACLY antibody (A3719) at a dilution of 1:1000.