

Summary

Production Name	ACLY Mouse Monoclonal Antibody
Description	Mouse Monoclonal Antibody
Host	Mouse
Application	WB,IHC,ICC,FC,ELISA
Reactivity	Human,Mouse,Rat,Monkey,Rabbit

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Immunogen

Gene Name	ACLY
Alternative Names	ACL; ATPCL; CLATP
Gene ID	47.0
SwissProt ID	P53396.Purified recombinant fragment of human ACLY (AA: 306-502) expressed in E. Coli.

Application

Dilution Ratio	WB:1:500-1:2000,IHC:1:100-1:500,ICC:1:50-1:500,FC:1:200-1:400,ELISA:1:10000
Molecular Weight	125kDa

Background

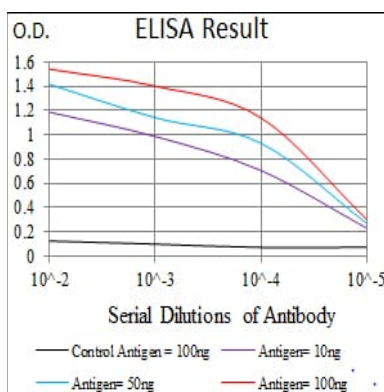
Product Name: ACLY Mouse Monoclonal Antibody
Catalog #: AMM81201



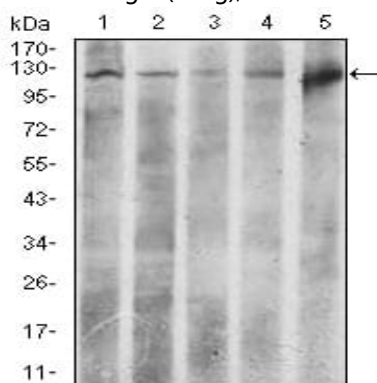
ATP citrate lyase is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA in many tissues. The enzyme is a tetramer (relative molecular weight approximately 440,000) of apparently identical subunits. It catalyzes the formation of acetyl-CoA and oxaloacetate from citrate and CoA with a concomitant hydrolysis of ATP to ADP and phosphate. The product, acetyl-CoA, serves several important biosynthetic pathways, including lipogenesis and 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.

Research Area

Image Data

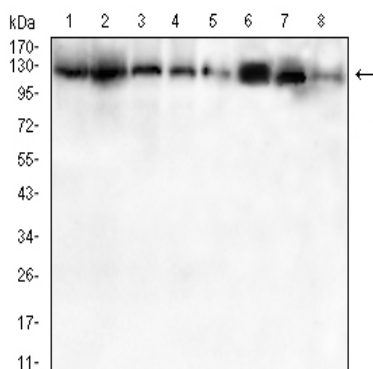


Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);

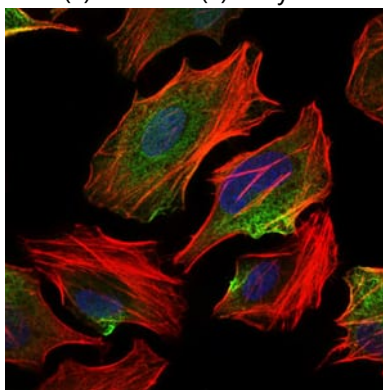


Western blot analysis using ACLY mouse mAb against HeLa (1), NIH3T3 (2), C6 (3), COS7 (4), and Raji (5) cell lysate.

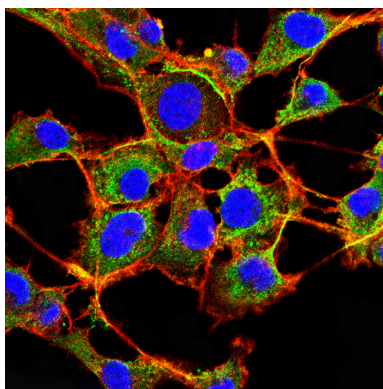
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Western blot analysis using ACLY mouse mAb against PC-12(1)Raw264.7(2)NIH/3T3(3)NRK(4)C6(5)F9(6)COS-7(7)CHO3D10(8)cell lysate.

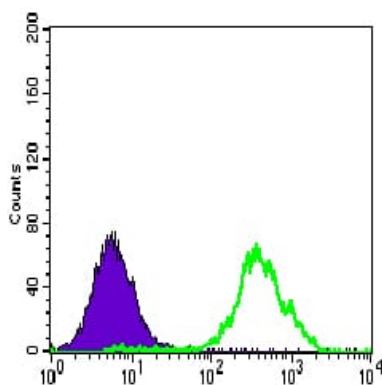


Immunofluorescence analysis of HeLa cells using ACLY mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

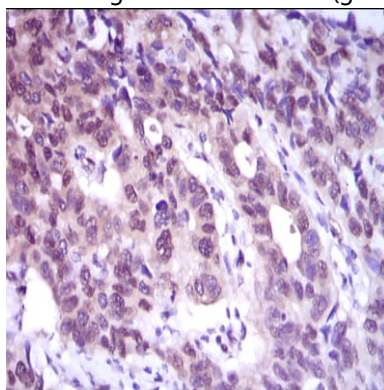


Immunofluorescence analysis of NIH/3T3 cells using ACLY mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin.

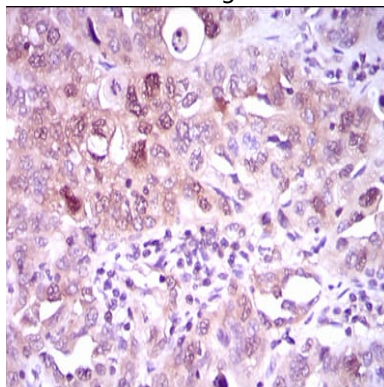
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Flow cytometric analysis of HeLa cells using ACLY mouse mAb (green) and negative control (purple).

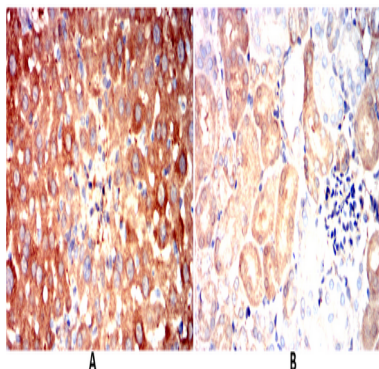


Immunohistochemical analysis of paraffin-embedded human esophageal cancer tissues using ACLY mouse mAb with DAB staining.



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

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Immunohistochemical analysis of paraffin-embedded Mouse liver(A) Mouse kidney(B) using ACLY mouse mAb with DAB staining.

Note

For research use only.