

# ACLY Antibody

Purified Mouse Monoclonal Antibody  
Catalog # AO1784a

## Product Information

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<b>Application</b>	WB, IHC, FC, ICC, E
<b>Primary Accession</b>	<a href="#">P53396</a>
<b>Reactivity</b>	Human, Mouse, Rat, Monkey
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	5F8D11
<b>Isotype</b>	IgG1
<b>Calculated MW</b>	120839 Da
<b>Description</b>	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.
<b>Immunogen</b>	Purified recombinant fragment of human ACLY (AA: 306-502 ) expressed in E. Coli.
<b>Formulation</b>	Purified antibody in PBS with 0.05% sodium azide

## Additional Information

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<b>Other Names</b>	ATP-citrate synthase, 2.3.3.8, ATP-citrate (pro-S-)-lyase, ACL, Citrate cleavage enzyme, ACLY
<b>Dilution</b>	WB~~1/500 - 1/2000 IHC~~1/200 - 1/1000 FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	ACLY Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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## References

1.J Biol Chem. 2010 Oct 15;285(42):32606-15. 2.Int J Cancer. 2010 May 15;126(10):2282-95.

## Images

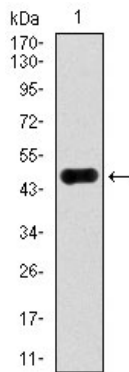


Figure 1: Western blot analysis using ACLY mAb against human ACLY recombinant protein. (Expected MW is 46.7 kDa)

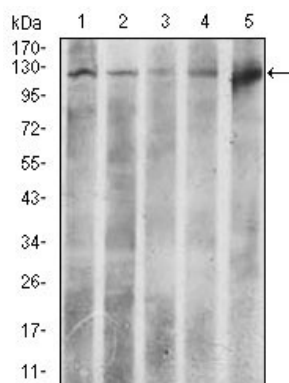


Figure 2: Western blot analysis using ACLY mouse mAb against HeLa (1), NIH3T3 (2), C6 (3), COS7 (4), and Raji (5) cell lysate.

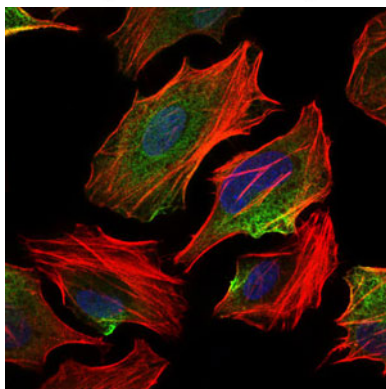


Figure 3: Immunofluorescence analysis of HeLa cells using ACLY mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

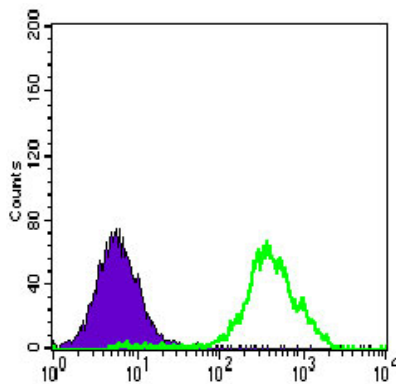


Figure 4: Flow cytometric analysis of HeLa cells using ACLY mouse mAb (green) and negative control (purple).

Figure 5: Immunohistochemical analysis of paraffin-embedded esophageal cancer tissues using ACLY mouse mAb with DAB staining.

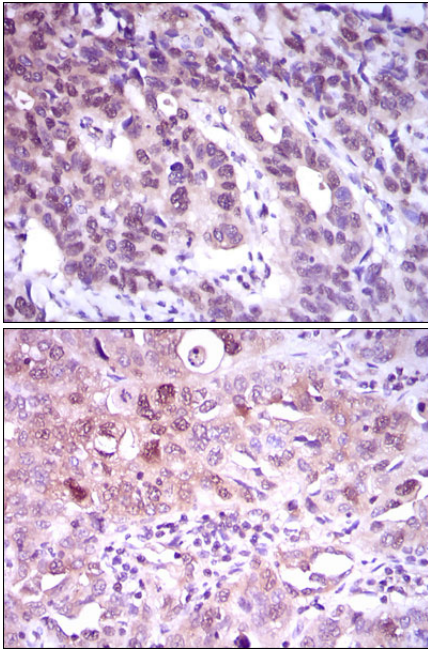


Figure 6: Immunohistochemical analysis of paraffin-embedded endometrial cancer tissues using ACLY mouse mAb with DAB staining.

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