

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for CF501031

ATP citrate lyase (ACLY) Mouse Monoclonal Antibody [Clone ID: OTI3G8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3G8
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50, IF 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ACLY (NP_001087) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	120.8 kDa
Gene Name:	ATP citrate lyase
Database Link:	<u>NP_001087</u> <u>Entrez Gene 24159 RatEntrez Gene 104112 MouseEntrez Gene 47 Human</u> <u>P53396</u>

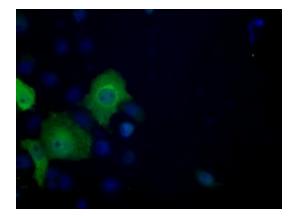


GRIGENE ATP citrate lyase (ACLY) Mouse Monoclonal Antibody [Clone ID: OTI3G8] – CF501031

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. Two transcript variants encoding distinct isoforms have been identified for this gene.

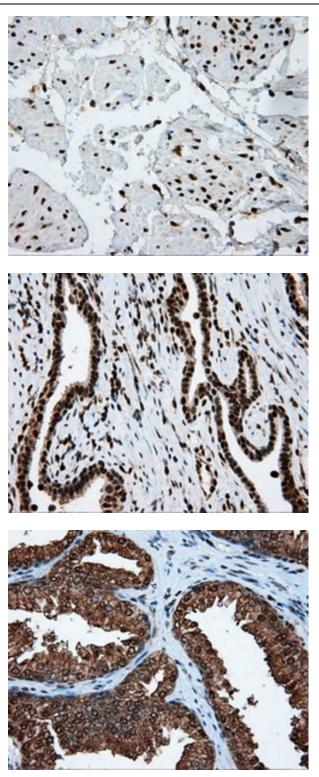
Synonyms:	ACL; ATPCL; CLATP
Protein Families:	Druggable Genome
Protein Pathways:	Citrate cycle (TCA cycle), Metabolic pathways

Product images:



 Anti-ACLY mouse monoclonal antibody ([TA501031]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ACLY ([RC200508]).

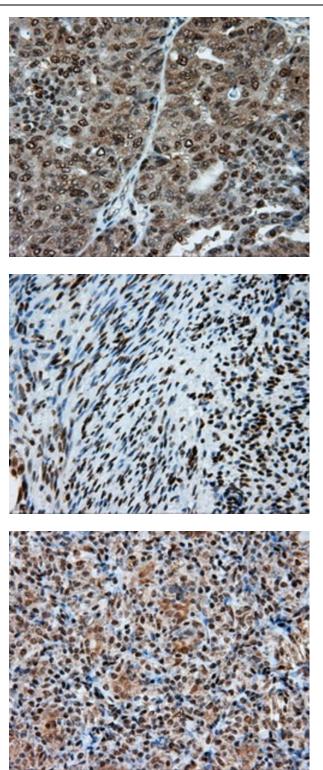
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ACLY (Cat# [RC200508], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ACLY(Cat# [TA501031]). Positive lysates [LY420122] (100ug) and [LC420122] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffinembedded bladder tissue within the normal limits using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

Immunohistochemical staining of paraffinembedded Carcinoma of prostate tissue using anti-ACLY mouse monoclonal antibody. (Heatinduced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

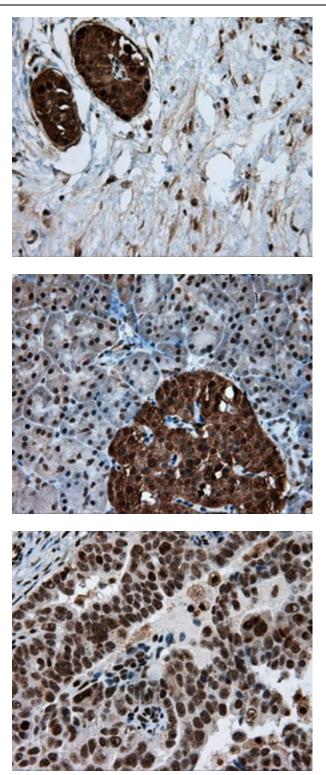
Immunohistochemical staining of paraffinembedded prostate tissue within the normal limits using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)



Immunohistochemical staining of paraffinembedded Adenocarcinoma of endometrium tissue using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

Immunohistochemical staining of paraffinembedded endometrium tissue within the normal limits using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

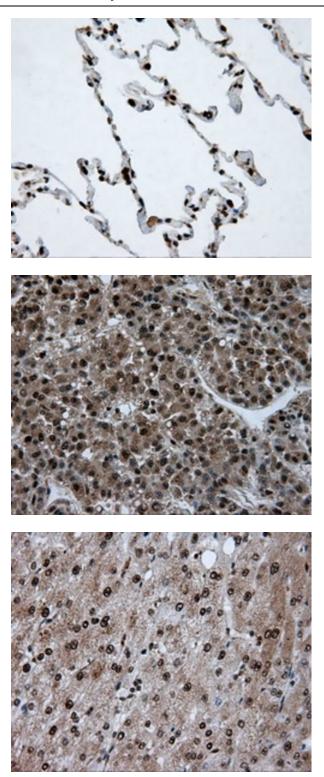
Immunohistochemical staining of paraffinembedded Carcinoma of thyroid tissue using anti-ACLY mouse monoclonal antibody. (Heatinduced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)



Immunohistochemical staining of paraffinembedded Carcinoma of pancreas tissue using anti-ACLY mouse monoclonal antibody. (Heatinduced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

Immunohistochemical staining of paraffinembedded pancreas tissue within the normal limits using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

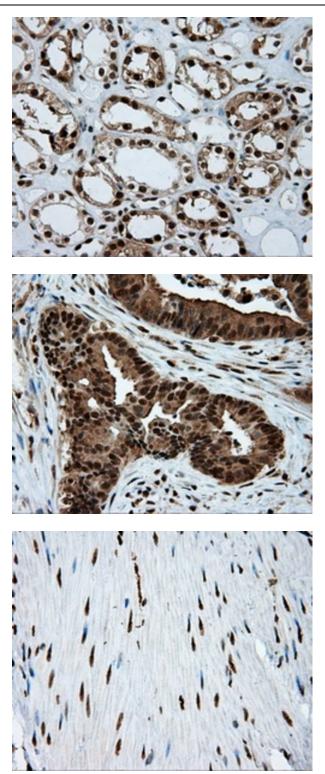
Immunohistochemical staining of paraffinembedded Adenocarcinoma of ovary tissue using anti-ACLY mouse monoclonal antibody. (Heatinduced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)



Immunohistochemical staining of paraffinembedded lung tissue within the normal limits using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

Immunohistochemical staining of paraffinembedded Carcinoma of liver tissue using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

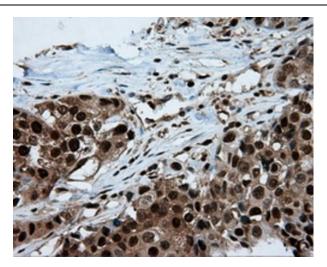
Immunohistochemical staining of paraffinembedded liver tissue within the normal limits using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)



Immunohistochemical staining of paraffinembedded Kidney tissue within the normal limits using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

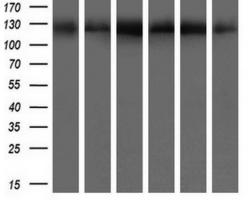
Immunohistochemical staining of paraffinembedded Adenocarcinoma of colon tissue using anti-ACLY mouse monoclonal antibody. (Heatinduced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)

Immunohistochemical staining of paraffinembedded colon tissue within the normal limits using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)



Immunohistochemical staining of paraffinembedded Adenocarcinoma of breast tissue using anti-ACLY mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501031], Dilution 1:50)





Western blot analysis of extracts (10ug) from 6 different cell lines by using anti-ACLY monoclonal antibody (1:200).