

For Research Use Only

# ACLY Monoclonal antibody

Catalog Number: 67166-1-Ig 8 Publications



## Basic Information

<b>Catalog Number:</b> 67166-1-Ig	<b>GenBank Accession Number:</b> BC006195	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1100 ug/ml by 47 Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> UNIPROT ID: P53396	<b>CloneNo.:</b> 1E10D5
<b>Source:</b> Mouse	<b>Full Name:</b> ATP citrate lyase	<b>Recommended Dilutions:</b> WB 1:1000-1:10000 IHC 1:1000-1:4000 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgM	<b>Calculated MW:</b> 121 kDa	
<b>Immunogen Catalog Number:</b> AG7709	<b>Observed MW:</b> 120 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : Jurkat cells, MCF-7 cells, HSC-T6 cells
<b>Cited Applications:</b> WB, IF, IP	<b>IHC :</b> human prostate cancer tissue,
<b>Species Specificity:</b> Human, Mouse, Rat	<b>IF/ICC :</b> A549 cells,
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

ACLY(ATP-citrate synthase) is also named as ACL. It is the primary enzyme responsible for the synthesis of cytosolic acetyl-CoA. ACLY serves as not only a target in oxygenated cells for suppression of lipid synthesis and histone acetylation, but also as a susceptible target in hypoxic cells to restore inhibition of glycolysis. In nonsmall cell lung carcinoma and hepatocellular carcinoma, ACLY is overexpressed compared with normal parenchyma suggesting that ACLY may represent a common target among highly malignant tumors(PMID:19795461). This protein has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu Hu	34539243	Mediators Inflamm	WB
Feifei Zhou	36241648	Cell Death Dis	WB,IF,IP
Ruixin Wu	39798341	Phytomedicine	WB

## Storage

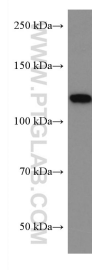
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

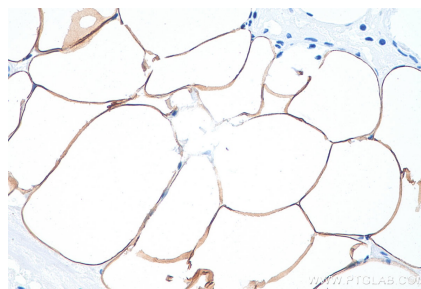
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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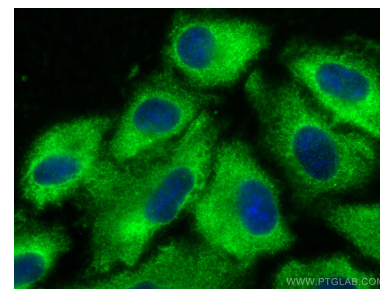
## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 67166-1-Ig (ACLY antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 67166-1-Ig (ACLY antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using ACLY antibody (67166-1-Ig, Clone: 1E10D5 ) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).