

For Research Use Only

ACLY Monoclonal antibody

Catalog Number: 67166-1-Ig **5 Publications**



Basic Information

Catalog Number: 67166-1-Ig	GenBank Accession Number: BC006195	Purification Method: Protein A purification
Size: 1100 µg/ml	GeneID (NCBI): 47	CloneNo.: 1E10D5
Source: Mouse	UNIPROT ID: P53396	Recommended Dilutions: WB 1:1000-1:10000 IHC 1:1000-1:4000 IF 1:50-1:500
Isotype: IgM	Full Name: ATP citrate Lyase	
Immunogen Catalog Number: AG7709	Calculated MW: 121 kDa	
	Observed MW: 120 kDa	

Applications

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

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
Ying Tian	38136219	Antioxidants (Basel)	WB

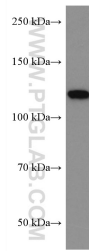
Storage

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

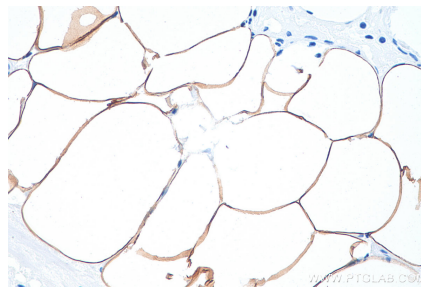
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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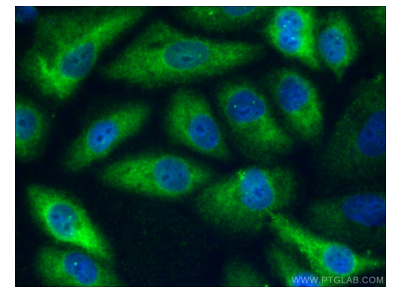
Selected Validation Data



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 Ethanol) fixed A549 cells using 67166-1-Ig (ACLY antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).