For Research Use Only

ACLY Polyclonal antibody

Catalog Number:15421-1-AP

Featured Product





Basic Information	Catalog Number: 15421-1-AP	GenBank Accessi BC006195	on Number:	Purification Method: Antigen affinity purification	
	Concentration:	GenelD (NCBI):		Recommended Dilutions: WB 1:1000-1:8000 IP 0 5-6 0 up for 1 0-3 0 mg of total	
	450 ug/ml	47			
	Source: Rabbit	P53396 Full Name: ATP citrate lyase Calculated MW: 121 kDa		protein lysate IHC 1:50-1:500 IF/ICC 1:10-1:100	
	Isotype: IgG Immunogen Catalog Number: AG7709				
					Observed MW: 120 kDa
		Applications	Tested Applications:	A	Positive Co
Cited Applications: WB, IHC, IF, IP, CoIP			WB : HeLa o 562 cells, M tissue	: HeLa cells, A549 cells, L02 cells, Jurkat cells, K- cells, MCF-7 cells, mouse liver tissue, rat liver ue	
Species Specificity:			IP : HeLa ce	ells,	
human, mouse, rat			IHC : huma	IHC : human prostate cancer tissue,	
human, mouse, rat, chicken			IF/ICC : He	epG2 cells,	
Note-IHC: suggested antiger TE buffer pH 9.0; (*) Alterna retrieval may be performed buffer pH 6.0	retrieval with tively, antigen with <mark>citrate</mark>				
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 P	ubmed ID Jo	ournal	Application	
	Sophie Trefely 3	1767181 M	lol Metab	WB	
	Xiaojing Liu 3	0245009 C	ell	WB	
	G Li 2	7641336 C	ncogene	WB	
Storage	Storage: Store at -20°C. Stable for one year a Storage Buffer: PBS with 0.02% sodium azide and	after shipment. 50% glycerol, pH7.3			

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15421-1-AP (ATP citrate lyase antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



WB result of ACLY antibody (15421-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACLY transfected A549 cells.



Immunofluorescent analysis of HepG2 cells, using ACLY antibody 15421-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Various lysates were subjected to SDS PAGE followed by western blot with 15421-1-AP (ACLY antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



IP result of anti-ACLY (IP:15421-1-AP, 4ug; Detection:15421-1-AP 1:8000) with HeLa cells lysate 1320 ug.



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human ACLY (15421-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit lgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 15421-1-AP (ACLY antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human prostate cancer tissue slide using 15421-1-AP (ACLY antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).