

For Research Use Only

Phospho-ACC1 (Ser79) Recombinant antibody

Catalog Number: 80281-2-RR



Basic Information

Catalog Number: 80281-2-RR	GenBank Accession Number: BC137287	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 31	CloneNo.: 240235G11
Source: Rabbit	UNIPROT ID: Q13085	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:250-1:1000
Isotype: IgG	Full Name: acetyl-Coenzyme A carboxylase alpha	
	Calculated MW: 2383 aa, 275 kDa	
	Observed MW: 250-270 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, mouse	WB : λ phosphatase treated NIH/3T3 cells, NIH/3T3 cells IF/ICC : Calyculin A treated HeLa cells,

Background Information

ACC1 represents a key enzyme, as it is highly regulated by phosphorylation and allosteric regulation, providing a rapid adaptation to new micro-environmental conditions. AMPK phosphorylates acetyl CoA carboxylase (ACC), a rate-controlling step in the conversion of acetyl-CoA to malonyl CoA. This phosphorylation inhibits the activity of ACC, which results in decreased malonyl CoA levels. Additionally, two isoforms of ACC encoded by two different genes in mammalian cells have been described, ACC1 and ACC2. ACC1 is highly enriched in lipogenic tissues (liver and adipose), while ACC2 is mainly expressed in oxidative tissues (heart, skeletal muscle and liver). (PMID: 29056512, PMID: 16054041, PMID: 30816537)

Storage

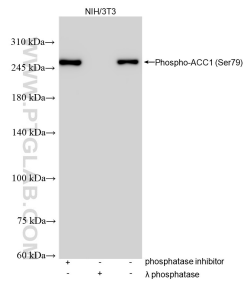
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

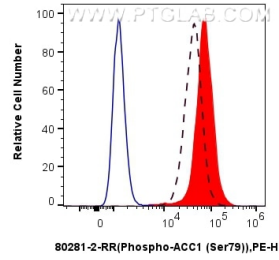
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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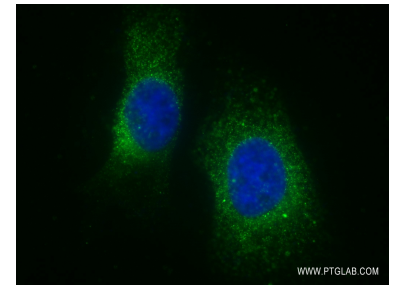
Selected Validation Data



Non-treated and λ phosphatase treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80281-2-RR (Phospho-ACC1 (Ser79) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1×10^6 Calyculin A treated HeLa cells were intracellularly stained with 0.25 μ g Phospho-ACC1 (Ser79) Recombinant antibody (80281-2-RR, Clone:240235G11) and PE-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.



Immunofluorescent analysis of (4% PFA) fixed Calyculin A treated HeLa cells using Phospho-ACC1 (Ser79) antibody (80281-2-RR, Clone: 240235G11) at dilution of 1:500 and Multi-rAb CoraLite[®] Plus 488-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (RGAM002).