

For Research Use Only

Phospho-ACC1 (Ser79) Polyclonal antibody



Catalog Number: 29119-1-AP

8 Publications

Basic Information

Catalog Number: 29119-1-AP	GenBank Accession Number: BC137287	Purification Method: Antigen affinity purification
Size: 100ul , Concentration: 600 µg/ml by Nanodrop;	GeneID (NCBI): 31	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	Full Name: acetyl-Coenzyme A carboxylase alpha	
Isotype: IgG	Calculated MW: 2383 aa, 275 kDa	
	Observed MW: 250 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : λ phosphatase treated SH-SY5Y cells, λ phosphatase treated NIH/3T3 cells
Cited Applications: IHC, WB	
Species Specificity: Human, mouse, rat	
Cited Species: human, rat, mouse	

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Yujie Zhong	36501024	Nutrients	WB
Menglong Wang	35647084	Front Cardiovasc Med	WB
Xiaoting Wang	35544345	J Nat Prod	WB

Storage

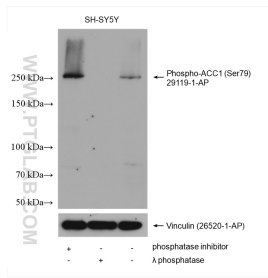
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

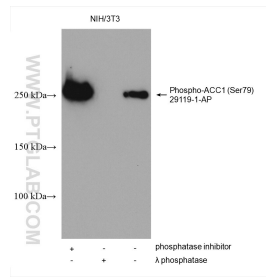
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Selected Validation Data



Non-treated SH-SY5Y, phosphatase inhibitor treated and λ phosphatase treated SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 29119-1-AP (Phospho-ACC1 (Ser79) antibody) at dilution of 1:1000 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with Vinculin antibody as loading control.



Non-treated NIH/3T3, phosphatase inhibitor treated and λ phosphatase treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 29119-1-AP (Phospho-ACC1 (Ser79) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.