

For Research Use Only

# Phospho-ACC1 (Ser79) Recombinant antibody



Catalog Number: 80281-2-RR

## Basic Information

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

## Applications

<b>Tested Applications:</b> WB, IF/ICC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human, Mouse	<b>WB:</b> λ phosphatase treated NIH/3T3 cells, <b>IF:</b> 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

For technical support and original validation data for this product please contact:

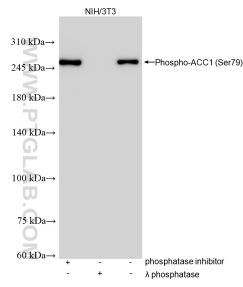
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

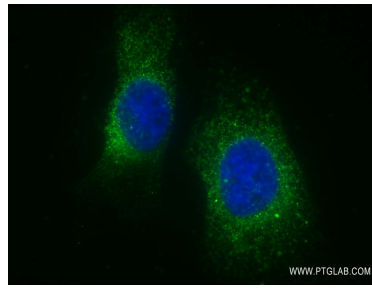
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



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.



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).