

For Research Use Only

# CoraLite®647-conjugated ACC1 Monoclonal antibody



Catalog Number:CL647-67373

## Basic Information

<b>Catalog Number:</b> CL647-67373	<b>GenBank Accession Number:</b> BC137287	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 31	<b>CloneNo.:</b> 1A11G10
<b>Source:</b> Mouse	<b>Full Name:</b> acetyl-Coenzyme A carboxylase alpha	<b>Excitation/Emission maxima wavelengths:</b> 650 nm/665 nm
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 2383 aa, 275 kDa	
<b>Immunogen Catalog Number:</b> AG17503	<b>Observed MW:</b> 260-270 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
Human, Mouse, Rat

## Background Information

ACACA(Acetyl-CoA carboxylase 1, ACC), also named as ACAC, ACC1 and ACCA, belongs to the biotin containing enzyme family. It catalyzes the synthesis of malonyl-CoA, which is an intermediate substrate playing a pivotal role in the regulation of fatty acid metabolism and energy production. ACACA is involved in the biosynthesis of fatty acids, and malonyl-CoA produced is used as a building block to extend the chain length of fatty acids by fatty acid synthase (FAS)(PMID:19900410). It has 4 isoforms produced by alternative promoter usage with the molecular weight between 260 kDa and 270 kDa.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

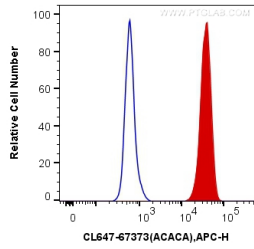
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## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Coralite®647 Anti-Human ACC1 (CL647-67373, Clone:1A11G10) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).