

For Research Use Only

# CoraLite® Plus 488-conjugated ACAA1 Polyclonal antibody



Catalog Number: CL488-12319

## Basic Information

<b>Catalog Number:</b> CL488-12319	<b>GenBank Accession Number:</b> BC011977	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 30	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P09110	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Isotype:</b> IgG	<b>Full Name:</b> acetyl-Coenzyme A acyltransferase 1	
<b>Immunogen Catalog Number:</b> AG2972	<b>Calculated MW:</b> 424 aa, 44 kDa	
	<b>Observed MW:</b> 41 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : U-251 cells,
<b>Species Specificity:</b> human, mouse, rat	

## Background Information

ACAA1 (acetyl-CoA acyltransferase 1) is an enzyme involved in lipid  $\beta$ -oxidation and provides substrates to the tricarboxylic acid (TCA) cycle, a critical step in cellular metabolism (PMID:33194642). ACAA1 is also a biomarker in type 2 diabetes (T2D), predicting the pre-diabetic metabolic signature in mouse models (PMID:25784953). Moreover, ACAA1 is highly expressed in TNBC, serving as a potential therapeutic target in ACAA1-high tumors and a predictive biomarker of resistance to CDK4/6 inhibitors for RB1-proficient patients (PMID:37129951).

## Storage

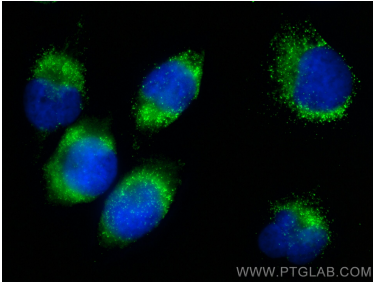
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 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

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

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed U-251 cells using CoraLite® Plus 488 ACAA1 antibody (CL488-12319) at dilution of 1:200.