For Research Use Only

CoraLite®555-conjugated CPT1A Polyclonal antibody

Catalog Number:CL555-15184 Featured Product

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
CL555-15184

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7202

GenBank Accession Number:
BC000185

GeneID (NCBI):
1374

UNIPROT ID:
P50416

Full Name:
carnitine palmitoyltransferase 1A (liver)

Calculated MW:
88 kDa

Observed MW:
86 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IF/ICC: 1:50-1:500
FC (Intra): 0.40 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
557 nm / 570 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Species Specificity:
human, mouse, rat

Positive Controls:

IF/ICC : HepG2 cells,

FC (Intra) : HeLa cells,

Background Information

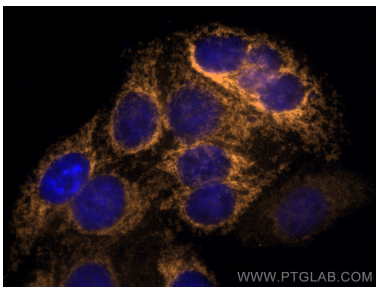
CPT1A, also named as CPT1, CPT1-L and L-CPTI, belongs to the carnitine/choline acetyltransferase family. It is Localized Chromosome 11q13.1-2. Carnitine palmitoyltransferase (CPT) deficiencies are common disorders of mitochondrial fatty acid oxidation. The CPT system is made up of two separate proteins located in the outer (CPT1) and inner (CPT2) mitochondrial membranes. CPT1A is an active forms of related liver-type carnitine palmitoyltransferase I. (PMID: 11001805). CPT1A deficiency presents as recurrent attacks of fasting hypoketotic hypoglycemia. (PMID: 15363638). This antibody can bind the close sequences genes.

Storage

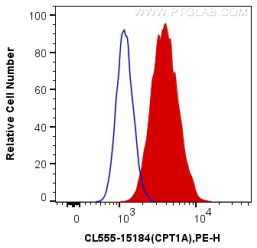
Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®555 CPT1A antibody (CL555-15184) at dilution of 1:200.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug CoraLite®555 Anti-Human CPT1A (CL555-15184) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.