

For Research Use Only

# CPT1A Monoclonal antibody, PBS Only



Catalog Number: 66039-1-PBS

Featured Product

## Basic Information

Catalog Number:

66039-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG7745

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:

Protein A purification

CloneNo.:

5D8G9

## Applications

Tested Applications:

WB, IP, FC, IHC, ELISA

Species Specificity:

human, mouse, rat

## Background Information

CPT1A, also named as CPT1, CPT1-L and L-CPTI, belongs to the carnitine/choline acetyltransferase family. 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. Stable for one year after shipment.

Storage Buffer:

PBS only

Aliquoting is unnecessary for -20°C storage

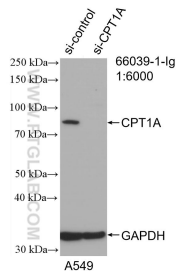
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

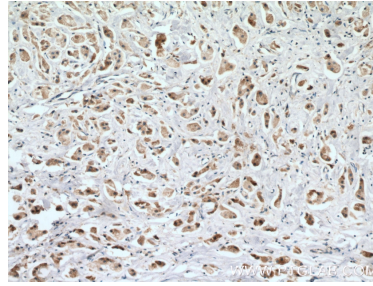
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

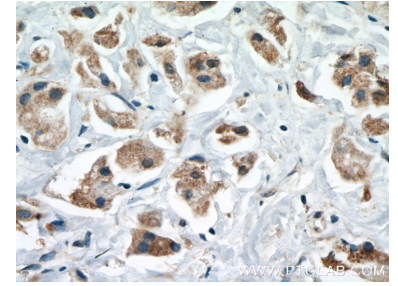
## Selected Validation Data



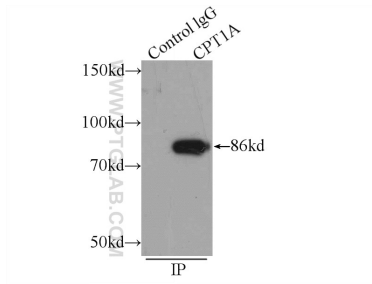
WB result of CPT1A antibody (66039-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CPT1A transfected A549 cells. This data was developed using the same antibody clone with 66039-1-PBS in a different storage buffer formulation.



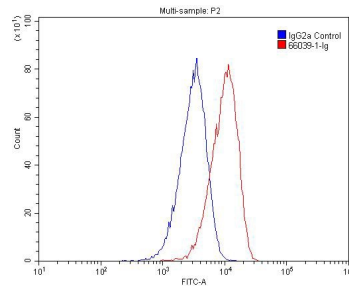
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66039-1-Ig (CPT1A antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)). This data was developed using the same antibody clone with 66039-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66039-1-Ig (CPT1A antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)). This data was developed using the same antibody clone with 66039-1-PBS in a different storage buffer formulation.



IP result of anti-CPT1A (IP:66039-1-Ig, 4ug; Detection:66039-1-Ig 1:500) with MCF-7 cells lysate 1200ug. This data was developed using the same antibody clone with 66039-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> HeLa cells were stained with 0.2ug CPT1A antibody (66039-1-Ig, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1500. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100. This data was developed using the same antibody clone with 66039-1-PBS in a different storage buffer formulation.