

For Research Use Only

CPT1A Recombinant monoclonal antibody, PBS Only

Catalog Number: 82012-2-PBS



Basic Information

Catalog Number: 82012-2-PBS	GenBank Accession Number: BC000185	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 1374	CloneNo.: 251085G11
Isotype: IgG	UNIPROT ID: P50416	
Immunogen Catalog Number: AG7202	Full Name: carnitine palmitoyltransferase 1A (liver)	
	Calculated MW: 88 kDa	
	Observed MW: 86 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human

Background Information

CPT1A, also named CPT1, CPT1-L and L-CPTI, belongs to the carnitine/choline acetyltransferase family. CPT1A gene 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 form 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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

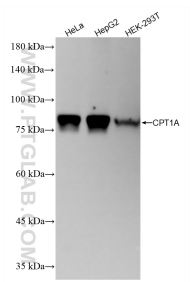
T: 4006900926

E: Proteintech-CN@ptglab.com

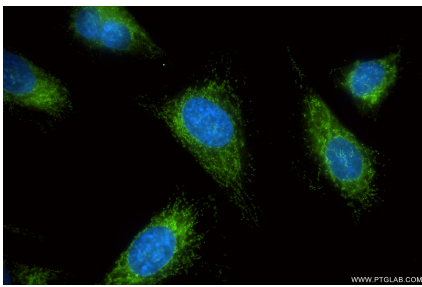
W: ptgcn.com

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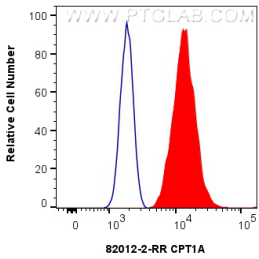
Selected Validation Data



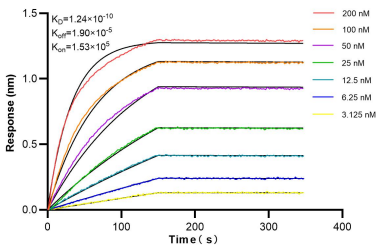
Various lysates were subjected to SDS PAGE followed by western blot with 82012-2-RR (CPT1A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82012-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using CPT1A antibody (82012-2-RR, Clone: 251085G11) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 82012-2-PBS in a different storage buffer formulation.



1x10⁶ HeLa cells were intracellularly stained with 0.25 ug CPT1A Recombinant monoclonal antibody (82012-2-RR, Clone:251085G11) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019). This data was developed using the same antibody clone with 82012-2-PBS in a different storage



Biolayer interferometry (BLI) kinetic assays of 82012-2-RR against Human CPT1A were performed. The affinity constant is 0.124 nM.