For Research Use Only

CPT1A Monoclonal antibody

Catalog Number:66039-3-Ig



Basic Information

Catalog Number: GenBank Accession Number: 66039-3-lg BC000185

 Concentration:
 GeneID (NCBI):

 1000 ug/ml
 1374

 Source:
 UNIPROT ID:

 Mouse
 P50416

Isotype: Full Name:

IgG1 carnitine palmitoyltransferase 1A (liver)

Immunogen Catalog Number: (liver)
AG7745 Calculated MW:

88 kDa

Observed MW: 86 kDa Purification Method: Protein G purification

CloneNo.:

5D2B8

Recommended Dilutions: WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC: 1:500-1:2000

Applications

Tested Applications: WB, IHC, IP, ELISA Species Specificity: human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB:TT cells, HeLa cells, rat liver tissue, mouse liver tissue, LNCaP cells, PANC-1 cells, HaCaT cells

IP: MCF-7 cells, HepG2 cells

IHC: mouse heart tissue, mouse skeletal muscle

tissue, rat heart tissue

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

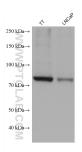
Storage:

Store at -20°C. Stable for one year after shipment. Storage Buffer:

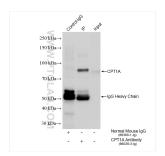
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

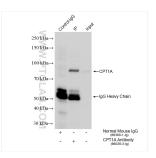
Selected Validation Data



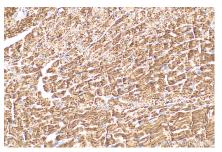
Various lysates were subjected to SDS PAGE followed by western blot with 66039-3-lg (CPT1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



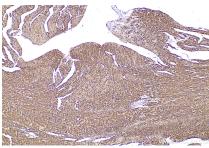
IP result of anti-CPT1A (IP:66039-3-Ig, 4ug; Detection:66039-3-Ig 1:3000) with MCF-7 cells lysate 1520 ug.



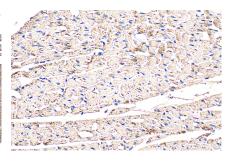
IP result of anti-CPT1A (IP:66039-3-Ig, 4ug; Detection:66039-3-Ig 1:3000) with HepG2 cells lysate 1800 ug.



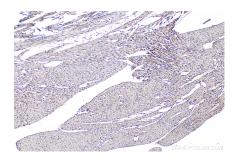
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 66039-3-Ig (CPT1A antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



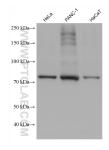
Immunohistochemical analysis of paraffinembedded mouse heart tissue slide using 66039-3-Ig (CPT1A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



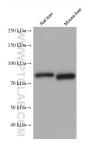
Immunohistochemical analysis of paraffinembedded rat heart tissue slide using 66039-3-lg (CPT1A antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



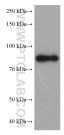
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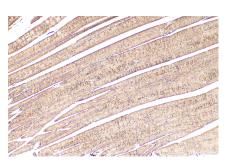


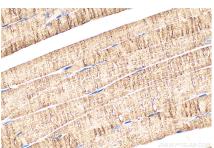
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Various lysates were subjected to SDS PAGE followed by western blot with 66039-3-lg (CPT1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.







mouse liver tissue were subjected to SDS PAGE followed by western blot with 66039-3-1g (CPT1A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 66039-3-Ig (CPT1A antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffinembedded mouse skeletal muscle tissue slide using 66039-3-Ig (CPT1A antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).