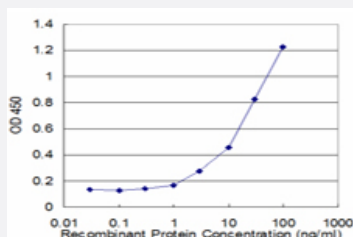


CPT1A monoclonal antibody (M02), clone 1D3

Catalog # H00001374-M02

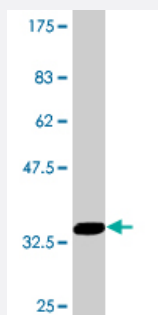
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CPT1A is approximately 1ng/ml as a capture antibody.



Western Blot detection against Immunogen (35.64 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CPT1A.
Immunogen	CPT1A (NP_001867.2, 461 a.a. ~ 550 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	VFKNGKMGLNAEHSWADAPIVAHLWEYVMSIDSLQLGYAEDGHCKGDINPNIPYPTLRLQWDIPGE CQEVIELSLNTANLLANDVDFHSFP
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (35.64 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CPT1A is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — CPT1A

Entrez GeneID

[1374](#)

GeneBank Accession#

[NM_001876](#)

Protein Accession#

[NP_001867.2](#)

Gene Name

CPT1A

Gene Alias

CPT1, CPT1-L, L-CPT1

Gene Description

carnitine palmitoyltransferase 1A (liver)

Omim ID

[255120](#) [600528](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

carnitine palmitoyltransferase 1A|carnitine palmitoyltransferase I, liver

Pathway

- [Adipocytokine signaling pathway](#)
- [Fatty acid metabolism](#)
- [PPAR signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Fatty Liver](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Insulin Resistance](#)
- [Lipid Metabolism](#)
- [Liver Cirrhosis](#)
- [Metabolic Syndrome X](#)

- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Sudden Infant Death](#)