10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CPT2 Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant CPT2.
Catalog # AT1614a

Specification

CPT2 Antibody (monoclonal) (M02) - Product Information

Application	**WB, E**
Primary Accession	P23786
Other Accession	BC005172
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b Kappa**
Calculated MW	**73777**

CPT2 Antibody (monoclonal) (M02) - Additional Information

Gene ID 1376

Other Names
Carnitine O-palmitoyltransferase 2, mitochondrial, Carnitine palmitoyltransferase II, CPT II, CPT2, CPT1

Target/Specificity
CPT2 (AAH05172, 351 a.a. ~ 450 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

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

Precautions
CPT2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

CPT2 Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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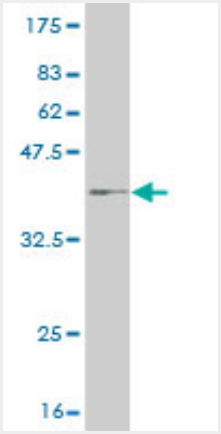
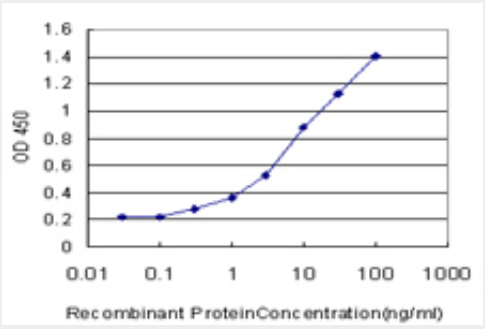
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CPT2 Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Detection limit for recombinant GST tagged CPT2 is approximately 0.3ng/ml as a capture antibody.

CPT2 Antibody (monoclonal) (M02) - Background

The protein encoded by this gene is a nuclear protein which is transported to the mitochondrial inner membrane. Together with carnitine palmitoyltransferase I, the encoded protein oxidizes long-chain fatty acids in the mitochondria. Defects in this gene are associated with mitochondrial long-chain fatty-acid (LCFA) oxidation disorders.

CPT2 Antibody (monoclonal) (M02) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua?o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615.High frequency of ETFDH c.250G>A mutation in Taiwanese patients with late-onset lipid storage myopathy. Lan MY, et al. Clin Genet, 2010 Mar 29. PMID 20370797.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Malignant hyperthermia-like syndrome and carnitine palmitoyltransferase II

deficiency with heterozygous R503C mutation. Hogan KJ, et al. Anesth Analg, 2009 Oct. PMID 19762733.