

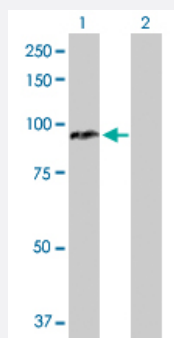
MaxPab®

CPT1A purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00001374-D01P

Size 100 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of CPT1A expression in transfected 293T cell line ([H00001374-T01](#)) by CPT1A MaxPab polyclonal antibody.

Lane 1: CPT1A transfected lysate(88.40 kDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human CPT1A protein.

Immunogen

CPT1A (NP_001867.2, 1 a.a. ~ 773 a.a) full-length human protein.

Sequence

MAEAHQAVAFQFTVTPDGIDLRLSHEALRQYLSGLHSWKKKFIRFKNGIITGVYPASPSSWLIVV
GVMTTMYAKIDPSLGIIAKINRTLETANCMSSQTKNVVSGVLFGTGLWVALVMTMRYSKVLVLSYHG
WMFTEHGKMSRATKWMGMVKIFSGRKPMYSFQTSPLRPLVPAVKDTVNRYLQSVRPLMKEED
FKRMTALAQDFAVGLGPRLQWYLKLKSWWATNYVSDWWEYYLRGRGPLMVNSNYAMDLLYI
LPTHIQAARAGNAIHAILLYRRKLDREEIKPIRLLGSTIPLCSAQWERMFNTSRIPGEETDTIQHMRDS
KHIVVYHRGRYFKVWLYYHDGRLLKPREMEQQMQRILDNTSEPQPGEARLAALTAGDRVPWARCR
QAYFGRGKNKQSLDAVEKAAFFVTLDTEEGYRSEDPDTSMDSYAKSLLHGRCYDRWFDKSFT
FVVFKNKGKMGMLNAEHSWADAPIVAHLWEYVMSIDSLQLGYAEDGHCKGDINPYPTRLQWDIP
GECQEVIELTSLNTANLLANDVDFHSFPFVAFGKGIIKCRTPDAFVQLALQLAHYKDMGKFCLTY
EASMTLRFREGRTETVRSCTTESCDFVRAMVDPAQTVQRLKLFKLASEKHQHMRYRLAMTGSGI
DRHLFCLYVSKYLAVESPFLEVLSEPWRLSTSQTQQQVELFDLENNPEYVSSGGGFGPVAD
DGYGVSYLVGENLINFHSSKFSCPETDSHRFGRHLKEAMTDITLFLGLSSNSKK

Host

Rabbit

Reactivity

Human

Quality Control Testing

Antibody reactive against mammalian transfected lysate.

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

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

Applications

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[Protocol Download](#)

Gene Info — CPT1A

Entrez GeneID
[1374](#)
GeneBank Accession#
[NM_001876.2](#)
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](#)