Product Datasheet

CPT1A Antibody NB100-53791

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB100-53791

CPT1A Antibody

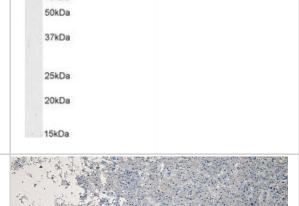
CF I IA Allibody	
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	88 kDa
Product Description	
Host	Goat
Gene ID	1374
Gene Symbol	CPT1A
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 25026599). Rat reactivity reported in scientific literature (PMID: 23045433).
Specificity/Sensitivity	This antibody is expected to recognize both reported isoforms (NP_001867.2; NP_001027017.1) but is not expected to recognise CPT1B.
Immunogen	Peptide with sequence C-DPAQTVEQRLKLFK corresponding to internal region according to NP_001867.2, NP_001027017.1.
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 1-3 ug/mL, Immunohistochemistry, Immunohistochemistry-Paraffin 5-7 ug/ml, Peptide ELISA Detection limit 1:128000
Application Notes	Western blot: Approx 80-85 kDa band observed in lysates of cell line MCF7 (calculated MW of 86.2 kDa according to NP_001027017.1).



Cpt1a EAE

WT EAE

Images Western Blot: CPT1A Antibody [NB100-53791] - Semiquantitative immunoblotting of CPT1A. Protein expression was investigated in the HB of WT EAE (n=6) and Cpt1a P479L EAE mice (n=6). The data were normalized to the density of the beta actin control. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/31527712/) licensed under a CC-BY license. Western Blot: CPT1A Antibody [NB100-53791] - Staining of MCF7 cell lysate (35 ug protein in RIPA buffer). Antibody at 2 ug/mL. Detected by chemiluminescence.



Immunohistochemistry-Paraffin: CPT1A Antibody [NB100-53791] - Negative Control showing staining of paraffin embedded Human Liver, with no primary antibody.



Immunohistochemistry-Paraffin: CPT1A Antibody [NB100-53791] - (5ug/ml) staining of paraffin embedded Human Liver. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Publications

Ferrarini F, Zulato E, Moro M et al. Metabolic classification of non-small cell lung cancer patient-derived xenografts by a digital pathology approach: A pilot study Frontiers in oncology 2023-02-28 [PMID: 36925926] (IHC-P, Human)

Yang Q, Sun S, Liu W et al. Hypoxia training improves hepatic steatosis partly by downregulation of CB1 receptor in obese mice Biochemical and Biophysical Research Communications 2020-02-01 [PMID: 32122652] (WB, Mouse)

Zhao L, Niu J, Lin H et al. Paracrine-endocrine FGF chimeras as potent therapeutics for metabolic diseases EBioMedicine 2019-10-17 [PMID: 31631034] (WB, Mouse)

Morkholt AS, Trabjerg MS, Oklinski MKE et al. CPT1A plays a key role in the development and treatment of multiple sclerosis and experimental autoimmune encephalomyelitis Sci Rep 2019-09-16 [PMID: 31527712] (WB, Mouse)

Pocai A, Lam TK, Obici S et al. Restoration of hypothalamic lipid sensing normalizes energy and glucose homeostasis in overfed rats. J Clin Invest 2006-04-01 [PMID: 16528412]

Zhang ZF, Fan SH, Zheng YL et al. Troxerutin improves hepatic lipid homeostasis by restoring NAD(+)-depletion-mediated dysfunction of lipin 1 signaling in high-fat diet-treated mice. Biochem. Pharmacol. 2014-09-01 [PMID: 25026599] (WB, Mouse)

Details:

CPT1A/carnitine palmitoyltransferase 1A antibody used for WB on lysates of liver tissues from mouse fed or not with high fat diet and/or treated with Troxerutin (PubChem CID 9896814) or EX527 (PubChem CID 5113032)- loading amount of lysate 50 ug, membrane blocking with 5% non-fat milk in 0.1% Tween-20/TBS, ON 4C primary incubation (Fig 8A).

Goedeke L, Vales-Lara FM, Fenstermaker M et al. A Regulatory Role for MicroRNA 33(Asterisk) in Controlling Lipid Metabolism Gene Expression. Mol Cell Biol 2013-06-01 [PMID: 23547260] (WB, Human)

Jin K, Norris K, Vaziri ND. Dysregulation of hepatic fatty acid metabolism in chronic kidney disease Nephrol Dial Transplant 2012-10-08 [PMID: 23045433] (WB, Rat)

Rayner KJ, Esau CC, Hussain FN et al. Inhibition of miR-33a/b in non-human primates raises plasma HDL and lowers VLDL triglycerides. Nature;478(7369):404-407. 2011-10-20 [PMID: 22012398]





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Products Related to NB100-53791

NB820-59232 Human Liver Whole Tissue Lysate (Adult Whole Normal)

NB100-53791PEP CPT1A Antibody Blocking Peptide

HAF017 Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish

Peroxidase)]

HAF109 Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish

Peroxidase)]

NB410-28088-1mg Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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