

Goat anti-CPT1B (isoform 1) Antibody

Item Number	dAP-0410
Target Molecule	Principle Name: CPT1B (isoform 1); Official Symbol: CPT1B; All Names and Symbols: CPT1B; carnitine palmitoyltransferase I, muscle; carnitine palmitoyltransferase 1B (muscle) ; CPT1-M; M-CPT1; KIAA1670; CPTI, muscle; carnitine O-palmitoyltransferase I, mitochondrial muscle isoform; carnitine palmitoyltransferase 1A (muscle); carnitine p; Accession Number (s): NP_689452.1; NP_689451.1; NP_004368.1; NP_001138609.1; NP_001138607.1; NP_001138606.1; NP_001138608.1; Human Gene ID(s): 1375; Non-
Immunogen	DIADLFQVPKAYS, is from C Terminus This antibody is expected to recognise human isoforms a (NP_689452.1; NP_689451.1; NP_004368.1; NP_001138609.1; NP_001138607.1), isoform c (NP_001138606.1) and isoform d (NP_001138608.1).
Applications	Pep ELISA, IHC Species Tested: Human
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 16000.
Western Blot	Western Blot: Preliminary experiments gave no signal but low background in human kidney and HepG2 lysates at up to 1µg/ml. We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates?
IHC	Immunohistochemistry: In paraffin embedded Human Heart shows staining of myocardial fibres in longitudinal section. Recommended concentration, 3-5µg/ml.
Reference	Reference(s): Yamazaki N, Shinohara Y, Shima A, Yamanaka Y, Terada H. Isolation and characterization of cDNA and genomic clones encoding human muscle type carnitine palmitoyltransferase I. Biochim Biophys Acta. 1996 Jun 7;1307(2):157-61..PMID: 8679700->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**