

Goat anti-CPT1A Antibody

Item Number	dAP-0949
Target Molecule	Principle Name: CPT1A; Official Symbol: CPT1A; All Names and Symbols: CPT1A; carnitine palmitoyltransferase 1A (liver) ; CPT1; CPT1-L; L-CPT1 ; carnitine palmitoyltransferase 1A; carnitine palmitoyltransferase I; carnitine palmitoyltransferase I, liver; Accession Number (s): NP_001867.2; NP_001027017.1; Human Gene ID(s): 1374; Non-Human GeneID(s):
Immunogen	DPAQTVEQRLKLFK, is from internal region This antibody is expected to recognize both reported isoforms (NP_001867.2; NP_001027017.1) but is not expected to recognise CPT1B.
Applications	Pep ELISA, WB, 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 128000.
Western Blot	Western Blot: Approx 80kDa band observed in Human Liver lysates (calculated MW of 86.2kDa according to NP_001027017.1). Recommended concentration: 0.1-0.3µg/ml.
IHC	Immunohistochemistry: In paraffin embedded Human Kidney shows mitochondria staining in PCT. Recommended concentration: 4-6µg/ml. Paraffin embedded Human Heart. Recommended concentration: 4µg/ml.
Reference	Reference(s): Pocai A, Lam TK, Obici S, Gutierrez-Juarez R, Muse ED, Arduini A, Rossetti L. Restoration of hypothalamic lipid sensing normalizes energy and glucose homeostasis in overfed rats. J Clin Invest. 2006 Apr;116(4):1081-91. Epub 2006 Mar 9. .PMID: 16528412 ->

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**