

Human Carnitine-Acylcarnitine Translocase (CACT) ELISA Kit | CACT elisa kit

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CATALOG #
AAA330822

REACTIVITY
Human

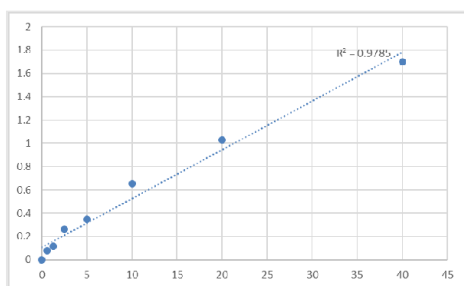
PRODUCT SYNONYMS

Carnitine-Acylcarnitine Translocase (CACT); Human Carnitine-Acylcarnitine Translocase (CACT) ELISA Kit; SLC25A20; CAC; CACT; carnitine/acylcarnitine carrier protein; carnitine/acylcarnitine translocase; CACT elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Carnitine-acylcarnitine translocase (CACT) ELISA Kit has high sensitivity and excellent specificity for detection of Human SLC25A20. No significant cross-reactivity or interference between Human SLC25A20 and analogues was observed.
Sequence Length	301
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Carnitine-acylcarnitine translocase (CACT) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for CACT elisa kit	Description: This Human Carnitine-acylcarnitine translocase (CACT) ELISA Kit employs a two-site sandwich ELISA to quantitate SLC25A20 in samples. An antibody specific for SLC25A20 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SLC25A20 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC25A20 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SLC25A20 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Carnitine-acylcarnitine translocase is one of several closely related mitochondrial-membrane carrier proteins that shuttle substrates between cytosol and the intramitochondrial matrix space. This protein mediates the transport of acylcarnitines into mitochondrial matrix for their oxidation by the mitochondrial fatty acid-oxidation pathway. Mutations in this gene are associated with carnitine-acylcarnitine translocase deficiency, which can cause a variety of pathological conditions such as hypoglycemia, cardiac arrest, hepatomegaly, hepatic dysfunction and muscle weakness, and is usually lethal in new born and infants.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4557403
NCBI GeneID	788
NCBI Accession #	NP_000378.1
NCBI GenBank Nucleotide #	NP_000378.1
UniProt Accession #	O43772
NCBI Official Full Name	mitochondrial carnitine/acylcarnitine carrier protein
NCBI Official Synonym Full Names	solute carrier family 25 member 20
NCBI Official Symbol	SLC25A20
NCBI Official Synonym Symbols	CAC; CACT
NCBI Protein Information	mitochondrial carnitine/acylcarnitine carrier protein
UniProt Protein Name	Mitochondrial carnitine/acylcarnitine carrier protein
UniProt Gene Name	SLC25A20
UniProt Synonym Gene Names	CAC; CACT; CAC
UniProt Entry Name	MCAT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.