

Human Methylcrotonoyl-CoA Carboxylase Subunit alpha, Mitochondrial (MCCC1) ELISA Kit | MCCC1 elisa kit

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CATALOG # AAA331847	REACTIVITY Human
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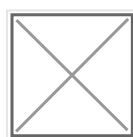
PRODUCT SYNONYMS

Methylcrotonoyl-CoA Carboxylase Subunit alpha; Mitochondrial (MCCC1); Human Methylcrotonoyl-CoA Carboxylase Subunit alpha; Mitochondrial (MCCC1) ELISA Kit; MCCC1; DKFZp686B20267; FLJ25545; MCC-B; MCCA; 3-methylcrotonyl-CoA carboxylase biotin-containing subunit; 3-methylcrotonyl-CoA:carbon dioxide ligase subunit alpha; MCCC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial (MCCC1) ELISA Kit has high sensitivity and excellent specificity for detection of Human MCCC1. No significant cross-reactivity or interference between Human MCCC1 and analogues was observed.
Sequence Length	725
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 Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial (MCCC1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MCCC1 elisa kit	Description: This Human Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial (MCCC1) ELISA Kit employs a two-site sandwich ELISA to quantitate MCCC1 in samples. An antibody specific for MCCC1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MCCC1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MCCC1 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 MCCC1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: The MCCC1 gene encodes a deduced 119-amino acid protein containing a putative coiled-coil domain at its C terminus and a predicted mitochondrial localization signal at its N terminus. RT-PCR analysis detected expression of MCCC1 in all human tissues tested, at highest levels in adult and fetal kidney, liver and lung, and fetal brain, and at lower levels in fetal spleen. The human and pig proteins share 65.9% overall sequence identity but their C-terminal domains are highly conserved, showing 92% identity over 53 residues. No orthologs were identified in any other species, suggesting that the gene arose relatively recently in evolution. Transient expression in mammalian cells of MCCC1 fused at its C terminus to either EGFP or the T7-epitope tag showed that the protein is localized to mitochondria.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116805327
NCBI GeneID	56922
NCBI Accession #	NP_064551.3
NCBI GenBank Nucleotide #	NP_064551.3
UniProt Accession #	Q96RQ3
NCBI Official Full Name	methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial isoform 1
NCBI Official Synonym Full Names	methylcrotonoyl-CoA carboxylase 1
NCBI Official Symbol	MCCC1
NCBI Official Synonym Symbols	MCCA; MCC-B
NCBI Protein Information	methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial
UniProt Protein Name	Methylcrotonoyl-CoA carboxylase subunit alpha, mitochondrial
UniProt Gene Name	MCCC1
UniProt Synonym Gene Names	MCCA; MCCase subunit alpha
UniProt Entry Name	MCCA_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.