Cytochrome C (CYCS) ELISA Kit for Human

PRODUCT OVERVIEW

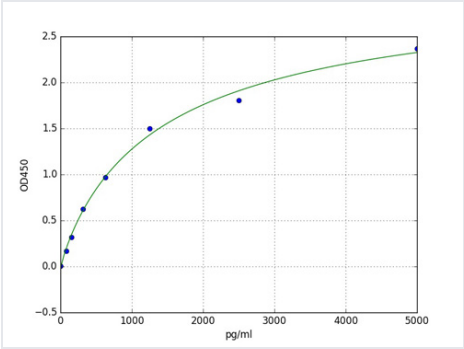
Product Name	Cytochrome c (CYCS), ELISA Kit
Full Product Name	Human Cytochrome c ELISA Kit
Product Gene Name	CYCS elisa kit
Product Synonym Names	CYCS (Cytochrome c)/CYCHCS/cytochrome c; somatic/THC4/CytC/CYC/HCS/THC4/Cyt-C
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	11,749 Da
OMIM	123970
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYCS elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human CYCS antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human CYCS antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human CYCS amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human CYCS can be calculated.
Other Notes	Small volumes of CYCS elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CYCS purchase	MBS760820 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome c (CYCS) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CYCS. The ELISA analytical biochemical technique of the MBS760820 kit is based on CYCS antibody-CYCS antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYCS antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYCS. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

Typical Data & Standard Curve

Results of a typical standard run of a Human CYCS ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	pg/ml	0	78	156	312.5	625	1250	2500	5000
Y	OD450	0.004	0.110	0.213	0.400	0.726	1.113	1.622	2.066

Typical Testing Data of CYCS elisa kit



Typical Standard Curve of CYCS elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYCS. It may not necessarily be applicable to this product.

NCBI GI #	11128019
NCBI GeneID	54205
NCBI Accession #	NP_061820.1
UniProt Secondary Accession #	P00001; Q6NUR2; Q6NX69; Q96BV4; A4D166; B2R4I1
UniProt Related Accession #	P99999
GenBank Nucleotide #	NM_018947.5
NCBI Official Full Name	cytochrome c
NCBI Official Synonym Full Names	cytochrome c, somatic
NCBI Official Symbol	CYCS
NCBI Official Synonym Symbols	CYC; HCS; THC4
UniProt Protein Name	Cytochrome c
Protein Family	Cytochrome
UniProt Gene Name	CYCS
UniProt Synonym Gene Names	CYC
UniProt Entry Name	CYC_HUMAN
NCBI Protein Information	cytochrome c
NCBI Summary for CYCS	This gene encodes a small heme protein that functions as a central component of the electron transport chain in mitochondria. The encoded protein associates with the inner membrane of the mitochondrion where it accepts electrons from cytochrome b and transfers them to the cytochrome oxidase complex. This protein is also involved in initiation of apoptosis. Mutations in this gene are associated with autosomal dominant nonsyndromic thrombocytopenia. Numerous processed pseudogenes of this gene are found throughout the human genome.[provided by RefSeq, Jul 2010]

UniProt Comments for CYCS	CYCS: Electron carrier protein. The oxidized form of the cytochrome c heme group can accept an electron from the heme group of the cytochrome c1 subunit of cytochrome reductase. Cytochrome c then transfers this electron to the cytochrome oxidase complex, the final protein carrier in the mitochondrial electron-transport chain. Belongs to the cytochrome c family. Protein type: Mitochondrial; Protein phosphatase, Ser/Thr (non-receptor); Oxidoreductase; Apoptosis Chromosomal Location of Human Ortholog: 7p15.3 Cellular Component: cytosol; mitochondrial inner membrane; mitochondrial intermembrane space; mitochondrion; nucleus; protein phosphatase type 2A complex Molecular Function: electron transporter, transferring electrons from CoQH2-cytochrome c reductase complex and cytochrome c oxidase complex activity; heme binding; metal ion binding; protein binding; protein serine/threonine phosphatase activity Biological Process: apoptosis; caspase activation via cytochrome c; cellular metabolic process; cellular respiration; gene expression; mitochondrial electron transport, cytochrome c to oxygen; mitochondrial electron transport, ubiquinol to cytochrome c; mitochondrion organization and biogenesis; organelle organization and biogenesis; programmed cell death; protein amino acid dephosphorylation; response to reactive oxygen species; transcription initiation from RNA polymerase II promoter Disease: Thrombocytopenia 4
Research Articles on CYCS	**1.** These findings establish a framework for understanding the molecular basis of cytochrome c-mediated blocking of SET/TAF-Ibeta.
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