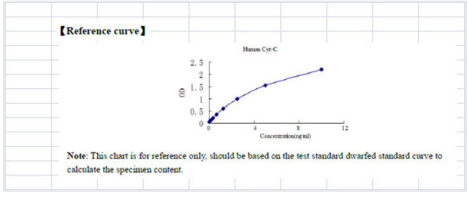
Cytochrome C (CYT-C) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytochrome C (Cyt-C) (Cyt-C), ELISA Kit
Full Product Name	Human Cytochrome C (Cyt-C) ELISA Kit
Product Gene Name	Cyt-C elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma or cell culture supernatant
Detection Range	10 ng/ml-0.156 ng/ml
Sensitivity	Up to 0.05 ng/ml
Specificity	No cross-reaction with other factors.
Preparation and Storage	Store all reagents at 2-8 degree C.
Inter-assay Precision	<= 12%
Intra-assay Precision	<= 8%
Molecular Weight	11,749 Da
OMIM	gene 612004
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cyt-C elisa kit	Principle of the Assay: This experiment use double-sandwich elisa technique and the ELISA Kit provided is typical. The pre-coated antibody is human Cyt-C monoclonal antibody and the detecting antibody is polyclonal antibody with biotin labeled. Samples and biotin labeling antibody are added into ELISA plate wells and washed out with PBS or TBS. Then Avidin-peroxidase conjugates are added to ELISA wells in order; Use TMB substrate for coloring after reactant thoroughly washed out by PBS or TBS. TMB turns into blue in peroxidase catalytic and finally turns into yellow under the action of acid. The color depth and the testing factors in samples are positively correlated.
Other Notes	Small volumes of Cyt-C 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 Cyt-C purchase	MBS266489 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome C (Cyt-C) (Cyt-C) 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 Cyt-C. The ELISA analytical biochemical technique of the MBS266489 kit is based on Cyt-C antibody-Cyt-C antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Cyt-C antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Cyt-C. 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 Testing Data/Standard Curve (for reference only) of Cyt-C elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cyt-C . 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
UniProt Gene Name	CYCS
UniProt Synonym Gene Names	CYC
UniProt Entry Name	CYC_HUMAN
NCBI Protein Information	cytochrome c
NCBI Summary for Cyt-C	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 Cyt-C	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: protein phosphatase type 2A complex; mitochondrion; mitochondrial inner membrane; mitochondrial intermembrane space; cytosol; nucleus Molecular Function: electron transporter, transferring electrons from CoQH2-cytochrome c reductase complex and cytochrome c oxidase complex activity; protein binding; iron ion binding; heme binding; protein serine/threonine phosphatase activity Biological Process: cellular metabolic process; mitochondrion organization and biogenesis; response to reactive oxygen species; dephosphorylation; apoptosis; organelle organization and biogenesis; cellular respiration; mitochondrial electron transport, cytochrome c to oxygen; caspase activation via cytochrome c; DNA fragmentation during apoptosis; transmembrane transport; mitochondrial electron transport, ubiquinol to cytochrome c Disease: Thrombocytopenia 4
Research Articles on Cyt-C	**1.** proposed that mutation of residue 41, and interaction with cardiolipin, increase peroxidase activity by altering the 40-57 Omega loop and its hydrogen bond network with the propionate of haem ring A; these changes enhance access of hydrogen peroxide and substrate to the haem

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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