

Human Cytochrome c ELISA Kit | CYCS elisa kit

Human Cytochrome c ELISA Kit

CATALOG # AAA261705	REACTIVITY Human	APPLICATIONS ELISA
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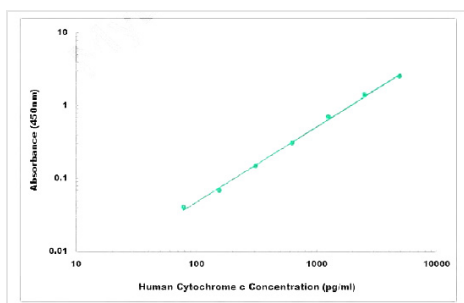
PRODUCT SYNONYMS

Cytochrome c; Human Cytochrome c ELISA Kit; CYC; CYCS elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Cytochrome c ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Cytochrome c proteins within the range of 78 pg/ml - 5000 pg/ml.
Sequence Length	105
Samples	Cell lysates
Sensitivity	< 40 pg/ml
Applicable Applications for CYCS elisa kit	ELISA (Sandwich ELISA)
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CYCS elisa kit	Principle of the Assay: The AAA Biotech' Human Cytochrome c ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Cytochrome c in Cell Lysates. This assay employs an antibody specific for Human Cytochrome c coated on a 96-well plate. Standards and samples are pipetted into the wells and Cytochrome c present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Cytochrome c antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Cytochrome c bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: Human somatic cytochrome c is a 15 kDa, 104 amino acid polypeptide that participates in both oxidative phosphorylation and apoptosis. It exhibits 91% aa identity with mouse/rat cytochrome c. The molecule is initially synthesized in the cytoplasm as an extended, 12 kDa apoprotein. This molecule is subsequently transported across the outer mitochondrial membrane into the intermitochondrial space via a receptor-independent process. Here, it associates with an inner mitochondrial membrane enzyme called CCHL which covalently attaches one heme molecule to the N-terminus, forming functional cytochrome c. This covalent attachment causes cytochrome c to undergo a conformational change to a globular molecule effectively trapping cytochrome c in the intermitochondrial space. Within the intermitochondrial space, cytochrome c is actively involved in the oxidative phosphorylation pathway. It transports electrons from the cytochrome c reductase complex to the cytochrome c oxidase complex. This transports excess electrons along the respiratory pathway and generates ATP for energy-dependent processes.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	42560196
NCBI GeneID	54205
UniProt Accession #	P99999; P00001; Q6NUR2; Q6NX69; Q96BV4; A4D166; B2R411
Molecular Weight	11,749 Da
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
NCBI Protein Information	cytochrome c
UniProt Protein Name	Cytochrome c
UniProt Gene Name	CYCS
UniProt Synonym Gene Names	CYC
UniProt Entry Name	CYC_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.