



Rat Cytochrome c(CYCS) ELISA kit

Product Code	CSB-EL006328RA
Abbreviation	CYCS
Protein Biological Process 1	Apoptosis/Autophagy
Target Name	cytochrome c, somatic
Uniprot No.	P62898
Alias	CYC, HCS, THC4, OTTHUMP00000202043 OTTHUMP00000202044 cytochrome c
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Apoptosis
Sample Types	serum, plasma, tissue homogenates
Detection Range	78 pg/mL-5000 pg/mL
Sensitivity	19.5 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cell Biology
Gene Names	Cycc
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat CYCS ELISA Kit was designed for the quantitative measurement of Rat CYCS protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 78 pg/mL-5000 pg/mL and the sensitivity is 19.5 pg/mL.

Target Details

This gene encodes cytochrome c, a component of the electron transport chain in mitochondria. The heme group of cytochrome c accepts electrons from the b-c1 complex and transfers electrons to the cytochrome oxidase complex. Cytochrome c is also involved in initiation of apoptosis. Upon release of cytochrome c to the cytoplasm, the protein binds apoptotic protease activating factor which activates the apoptotic initiator procaspase 9. Many cytochrome c pseudogenes exist, scattered throughout the human genome.



Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of rat CYCS in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	90
	Range %	87-94
1:2	Average %	89
	Range %	85-96
1:4	Average %	92
	Range %	90-95
1:8	Average %	91
	Range %	87-96

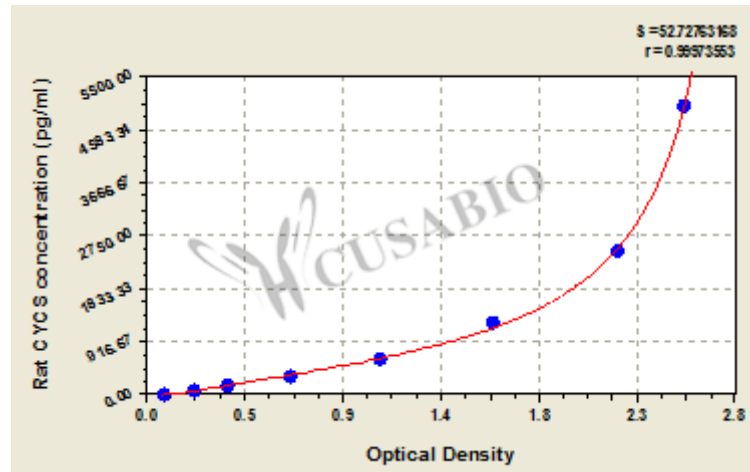
Recovery

The recovery of rat CYCS spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	94	90-96
EDTA plasma (n=4)	90	84-96

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
5000	2.581	2.458	2.520	2.427
2500	2.234	2.186	2.210	2.117
1250	1.638	1.621	1.630	1.537
625	1.103	1.097	1.100	1.007
312	0.692	0.672	0.682	0.589
156	0.393	0.386	0.390	0.297
78	0.236	0.223	0.230	0.137
0	0.094	0.092	0.093	?

Msds

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