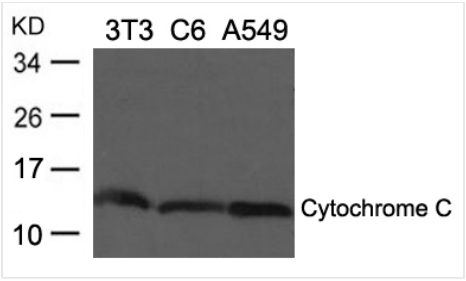
Cytochrome C (CYCS) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cytochrome C (CYCS), Polyclonal Antibody
Full Product Name	Cytochrome C Antibody
Product Gene Name	anti-CYCS antibody
Product Synonym Names	CYC, HCS, THC4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total Cytochrome C protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	11,749 Da
OMIM	123970
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.71-75(N-P-K-K-Y) derived from Human Cytochrome C.
Target Name	Cytochrome C
Product Categories/Family for anti-CYCS antibody	Total protein Ab
Applications Tested/Suitable for anti-CYCS antibody	Western Blot (WB)
Application Notes for anti-CYCS antibody	Western blotting: 1:500~1: 1000
Related Product Information for anti-CYCS antibody	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.Plays a role in apoptosis. Suppression of the anti-apoptotic members or activation of the pro-apoptotic members of the Bcl-2 family leads to altered mitochondrial membrane permeability resulting in release of cytochrome c into the cytosol. Binding of cytochrome c to Apaf-1 triggers the activation of caspase-9, which then accelerates apoptosis by activating other caspases.
Other Notes	Small volumes of anti-CYCS antibody 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	MBS9409878 is an antibody targeting CYCS. Also known as Cytochrome C Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CYCS antibody
Western blot analysis of extracts from 3T3, C6 and A549 cells using Cytochrome C Antibody.

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: Oxidoreductase; Protein phosphatase, Ser/Thr (non-receptor); Mitochondrial; 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 CYCS	**1.** G-Rh2 causes rapid and dramatic translocation of both Bak and Bax, which subsequently triggers mitochondrial cytochrome c release and consequent caspase activation.
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