



# Anti-CYCS monoclonal antibody, clone 2G8 (CABT-49976MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

This product recognises cytochrome c, originally termed Apaf-2, an evolutionarily conserved protein which acts as an essential mitochondrial electron carrier between respirable substrates and oxygen, during aerobic energy production. A second major function for cytochrome c is its role as an intermediate in apoptosis, both through its association with inositol-3-phosphate receptor (IP3 receptor) which acts as an ER calcium release channel, and its association with apoptotic protease activating factor 1 (Apaf-1), resulting in the formation of the apoptosome protein complex which then recruits and activates pro-caspase 9 (Apaf-3). Clone 2G8 is reported to block the role of cytochrome c as a co-factor in the activation of caspase 9. Removal of sodium azide is recommended prior to use in functional assays. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul.

Specificity	CYCS
Immunogen	Human cytochrome c
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rabbit, Rat
Clone	2G8
Conjugate	Unconjugated
Applications	ELISA; FC
Format	Purified IgG - liquid
Size	100 µg

<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">CYCS cytochrome c, somatic [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	CYCS
<b>Synonyms</b>	CYCS; cytochrome c, somatic; CYC; HCS; THC4; cytochrome c;
<b>Entrez Gene ID</b>	<a href="#">54205</a>
<b>Protein Refseq</b>	<a href="#">NP_061820</a>
<b>UniProt ID</b>	P99999
<b>Chromosome Location</b>	7p15.3
<b>Pathway</b>	AGE/RAGE pathway; Activation of caspases through apoptosome-mediated cleavage; Alzheimers disease; Alzheimers Disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Apoptosis Modulation and Signaling; Apoptosis Modulation by HSP70;
<b>Function</b>	electron transporter, transferring electrons from CoQH2-cytochrome c reductase complex and cytochrome c oxidase complex activity; heme binding; iron ion binding; protein binding; contributes_to protein serine/threonine phosphatase activity;