

## Anti-Cytochrome C (Mitochondrial Marker) CYCS Monoclonal Antibody

Catalog Number: M03529

### About CYCS

Cytochrome C is a well-characterized mobile electron transport protein that is essential to energy conversion in all aerobic organisms. In mammalian cells, this highly conserved protein is normally localized to the mitochondrial inter-membrane space. More recent studies have identified cytosolic cytochrome c as a factor necessary for activation of apoptosis. During apoptosis, cytochrome c is trans-located from the mitochondrial membrane to the cytosol, where it is required for activation of caspase-3 (CPP32). Overexpression of Bcl-2 has been shown to prevent the translocation of cytochrome c, thereby blocking the apoptotic process. Overexpression of Bax has been shown to induce the release of cytochrome c and to induce cell death. The release of cytochrome c from the mitochondria is thought to trigger an apoptotic cascade, whereby Apaf-1 binds to Apaf-3 (caspase-9) in a cytochrome c-dependent manner, leading to caspase-9 cleavage of caspase-3.

### Overview

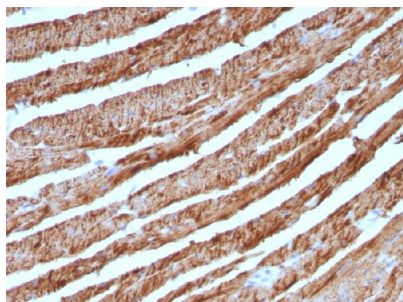
Product Name	Anti-Cytochrome C (Mitochondrial Marker) CYCS Monoclonal Antibody
Reactive Species	Dog, Drosophila, Human, Mouse, Rat, Horse, Frog, Pigeon
Description	Boster Bio Anti-Cytochrome C (Mitochondrial Marker) CYCS Monoclonal Antibody (Catalog # M03529). Tested in WB, Flow Cytometry, IHC applications. This antibody reacts with Human, Mouse, Rat, Horse, Dog, Pigeon, Frog, Drosophila.
Conjugate	Biotin
Application	Flow Cytometry, IHC, WB
Clonality	Monoclonal Clone: CTC05
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Host	Mouse
Uniprot ID	P99999

### Technical Details

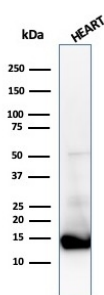
Immunogen	Recombinant cytochrome c protein
Predicted Reactive Species	Pig, Rabbit
Cross Reactivity	Does not cross-react with primate, avian or amphibian GR.
Isotype	IgG2b, kappa

Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western Blot (1-2ug/ml)</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&amp;degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p>

## Anti-Cytochrome C (Mitochondrial Marker) CYCS Monoclonal Antibody (M03529) Images



Formalin-fixed, paraffin-embedded human Heart stained with Anti-Cytochrome C Monoclonal Antibody (CTC05).



Western Blot analysis of heart tissue lysate using Anti-Cytochrome C Mouse Monoclonal Antibody (CTC05).

## 13 Publications Citing This Product

1. PubMed ID: 32733634, Zhang T, Chen Y, Cai J, Pan M, Sun Q, Zhang J, Sun C. SOCS2 Inhibits Mitochondrial Fatty Acid Oxidation via Suppressing LepR/JAK2/AMPK Signaling Pathway in Mouse Adipocytes. *Oxid Med Cell Longev*. 2020 Jul 13;2020:3742542. doi:10.1155/2020/3742542. PMID:32733634; PMCID: PMC7425422
2. PubMed ID: 25336971, Song D, Yue W, Li Z, Li J, Zhao J, Zhang N. Onco Targets Ther. 2014 Sep 30;7:1801-10. Doi: 10.2147/Ott.S52426. Ecollection 2014. Study Of The Mechanism Of Sonodynamic Therapy In A Rat Glioma Model.
3. PubMed ID: 28860994, Pioglitazone improves mitochondrial function in the remnant kidney and protects against renal fibrosis in 5/6 nephrectomized rats

Visit [bosterbio.com/anti-cytochrome-c-mitochondrial-marker-antibody-m03529-boster.html](http://bosterbio.com/anti-cytochrome-c-mitochondrial-marker-antibody-m03529-boster.html) to see all 13 publications.

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