


Alexa Fluor® 488 Anti-Cytochrome C antibody [37BA11] ab154476

[3 References](#) [3 Images](#)

Overview

Product name	Alexa Fluor® 488 Anti-Cytochrome C antibody [37BA11]
Description	Alexa Fluor® 488 Mouse monoclonal [37BA11] to Cytochrome C
Host species	Mouse
Conjugation	Alexa Fluor® 488. Ex: 495nm, Em: 519nm
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow, Caenorhabditis elegans 
Immunogen	Full length native protein (purified) corresponding to Cow Cytochrome C.
General notes	<p>Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: 1% BSA, 30% Glycerol (glycerin, glycerine), PBS
Purity	IgG fraction
Purification notes	ab154476 was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Clonality	Monoclonal
Clone number	37BA11
Isotype	IgG2a

Applications

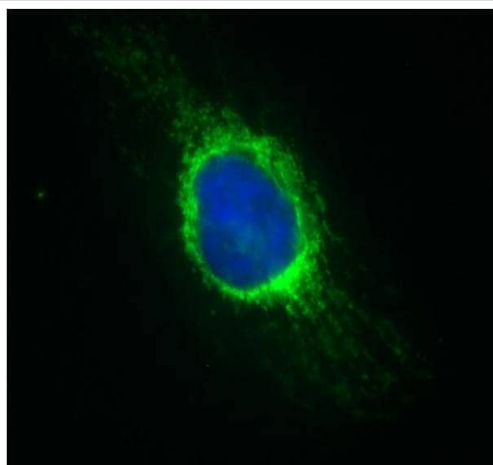
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab154476 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use a concentration of 0.2 µg/ml. ab171464 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
ICC/IF		Use a concentration of 1 µg/ml.

Target

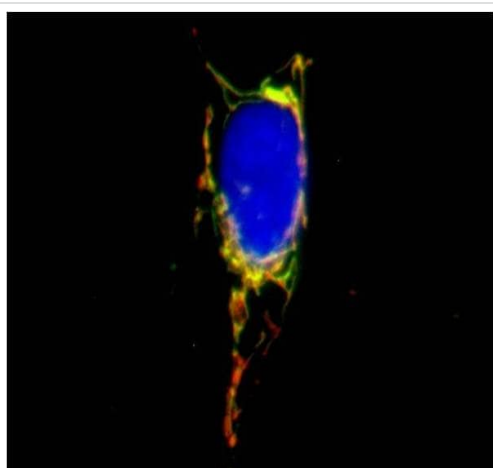
Function	<p>Electron carrier protein. The oxidized form of the cytochrome c heme group can accept an electron from the heme group of the cytochrome c1 subunit of cytochrome reductase. Cytochrome c then transfers this electron to the cytochrome oxidase complex, the final protein carrier in the mitochondrial electron-transport chain.</p> <p>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.</p>
Involvement in disease	Defects in CYCS are the cause of thrombocytopenia type 4 (THC4) [MIM:612004]; also known as autosomal dominant thrombocytopenia type 4. Thrombocytopenia is the presence of relatively few platelets in blood. THC4 is a non-syndromic form of thrombocytopenia. Clinical manifestations of thrombocytopenia are absent or mild. THC4 may be caused by dysregulated platelet formation.
Sequence similarities	Belongs to the cytochrome c family.
Post-translational modifications	Binds 1 heme group per subunit.
Cellular localization	Mitochondrion matrix.

Images



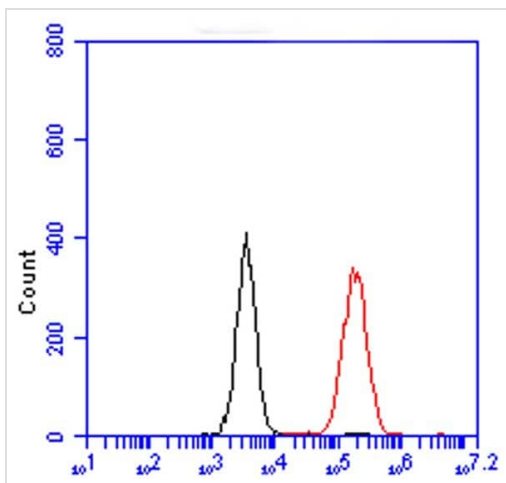
Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-Cytochrome C antibody [37BA11] (ab154476)

Immunocytochemistry with HeLa cells (100x) were stained with Anti-Cytochrome C Alexa-488 antibody (1.0 µg/mL, ab154476) in green and DAPI in blue, as a nuclear stain.



Immunocytochemistry/ Immunofluorescence - Alexa Fluor® 488 Anti-Cytochrome C antibody [37BA11] (ab154476)

Immunocytochemistry with HDFn (100x) cells were stained with Anti-Cytochrome C Alexa-488 antibody (1.0 µg/mL, ab154476) in green, Anti-HSP60 (1/1000, [ab46798](#)) as red, and DAPI in blue, as a nuclear stain. Secondary antibody used was goat anti-rabbit dyelight-594 (1/1000, [ab96897](#)).



Flow Cytometry (Intracellular) - Alexa Fluor® 488
Anti-Cytochrome C antibody [37BA11] (ab154476)

Flow Cytometry for Anti-Cytochrome C Alexa-488 antibody (ab154476) stained HeLa cells. Flow cytometry results of unstained cells (black) and 0.2 µg/mL Cytochrome C Alexa-488 (red) stained cells.

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