


Alexa Fluor® 488 Anti-Cytochrome C antibody [EPR1327] ab192485

重组 RabMAb

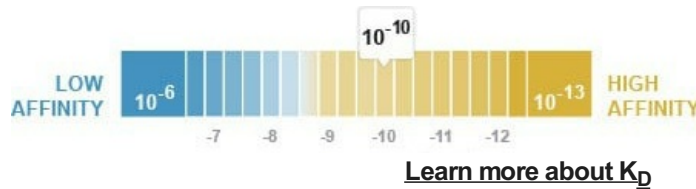
3 图像

概述

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| 产品名称 | Alexa Fluor® 488荧光Anti-Cytochrome C抗体[EPR1327] |
| 描述 | Alexa Fluor® 488荧光兔单克隆抗体[EPR1327] to Cytochrome C |
| 宿主 | Rabbit |
| 偶联物 | Alexa Fluor® 488. Ex: 495nm, Em: 519nm |
| 经测试应用 | 适用于: ICC/IF, Flow Cyt (Intra) |
| 种属反应性 | 与反应: Human 预测可用于: Mouse, Rat  |
| 免疫原 | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| 阳性对照 | ICC/IF: HeLa cells. Flow Cyt (Intra): HeLa cells. |
| 常规说明 | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p> <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: (i) 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</p> |

性能

| | |
|------------------------|---------------------------------------------------------------------------------------------------------------------|
| 形式 | Liquid |
| 存放说明 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark. |
| 解离常数 (K _D) | K _D = 1.29 x 10 ⁻¹⁰ M |



| | |
|------|---------------------------------------------------------------------------------------------------------------|
| 存储溶液 | pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 30% Glycerol (glycerin, glycerine), 1% BSA, PBS |
| 纯度 | Protein A purified |
| 克隆 | 单克隆 |
| 克隆编号 | EPR1327 |
| 同种型 | IgG |

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab192485 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度; 实际最佳的稀释度/浓度应由使用者检定。

| 应用 | Ab评论 | 说明 |
|------------------|------|------------------------------------------------------------------------------------------------------------------------------------|
| ICC/IF | | 1/50. |
| Flow Cyt (Intra) | | 1/50. ab199091 - Rabbit monoclonal IgG (Alexa Fluor® 488), is suitable for use as an isotype control with this antibody. |

靶标

功能 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.

疾病相关 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.

序列相似性

Belongs to the cytochrome c family.

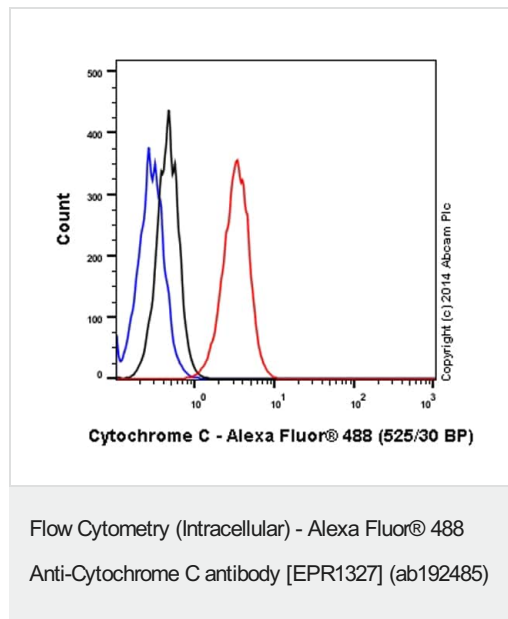
翻译后修饰

Binds 1 heme group per subunit.

细胞定位

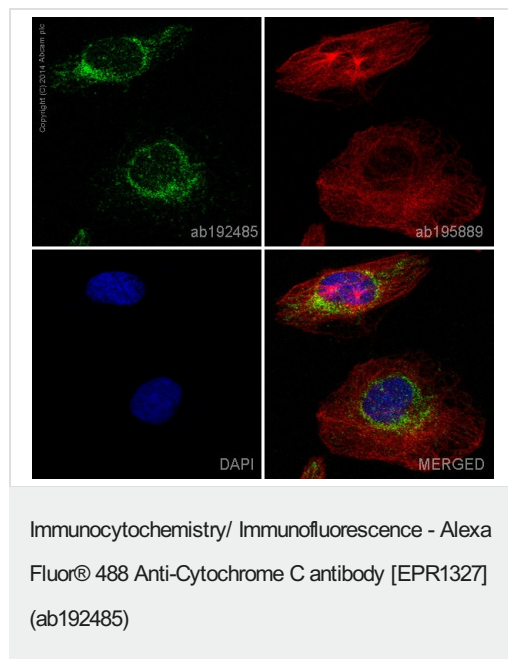
Mitochondrion matrix.

图片



Overlay histogram showing HeLa cells stained with ab192485 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab192485, 1/50 dilution) for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) Alexa Fluor® 488 used at the same concentration and conditions as the primary antibody. Unlabelled sample (blue line) was also used as a control.

Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



ab192485 staining Cytochrome C in HeLa cells. The cells were fixed with 4% formaldehyde (10 min), permeabilized in 0.1% Triton X-100 for 5 minutes and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated with ab192485 at a working dilution of 1 in 50 (shown in green) and **ab195889**, Mouse monoclonal [DM1A] to alpha Tubulin (Alexa Fluor® 594, shown in red) at 2µg/ml overnight at +4°C. Nuclear DNA was labelled in blue with DAPI.

This product also gave a positive signal in 100% methanol (5 min) fixed HeLa cells under the same testing conditions.

Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Alexa Fluor® 488 Anti-Cytochrome C antibody
[EPR1327] (ab192485)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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