

Anti-Complex IV Immunocapture antibody [31E91B82G9] ab109863

[1 Abreviews](#) [4 References](#) [3 图像](#)

概述

产品名称	Anti-Complex IV Immunocapture抗体[31E91B82G9]
描述	小鼠单克隆抗体[31E91B82G9] to Complex IV Immunocapture
宿主	Mouse
特异性	100 µg ab109863 can capture at least 10 µg Complex IV (COX) from 1 mg solubilized Bovine heart mitochondria.
经测试应用	适用于: ICC/IF, IP, Flow Cyt 不适用于: IHC-P or WB
种属反应性	与反应: Cow, Human
免疫原	Full length native protein (purified). This information is considered to be commercially sensitive.
阳性对照	Bovine heart and Human mitochondria IF/ICC: HeLa cell line
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline

纯化说明	ab109863 was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
克隆	单克隆
克隆编号	31E91B82G9
同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee
Abpromise™承诺保证使用ab109863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		Use a concentration of 5 µg/ml.
IP		Use at 100-1 µg/mg of lysate.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

应用说明

Is unsuitable for IHC-P or WB.

靶标

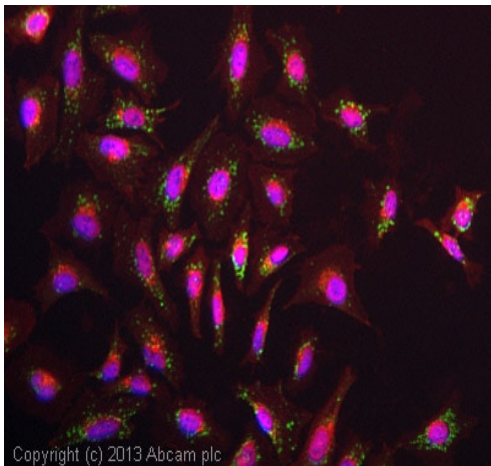
相关性

Complex IV, also called cytochrome c oxidoreductase or cytochrome c oxidase, is a complex of 13 different subunits, three of which (I, II and III) are encoded on mitochondrial DNA and the remainder in the nuclear DNA. The complex contains two heme groups (a and a3) and two copper atoms as prosthetic groups. Genetic alterations of this enzyme complex are a common cause of OXPHOS diseases and the enzyme is altered in patients with Alzheimer’s disease. Also, there are reports of reduced amounts of this complex in hypoxic cancer cells.

细胞定位

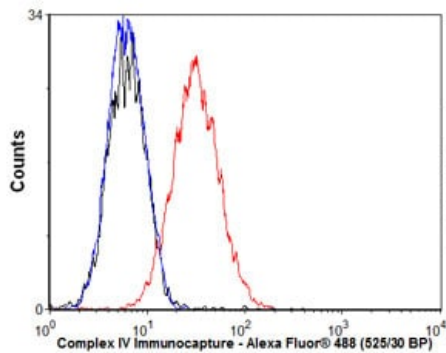
Mitochondrial

图片



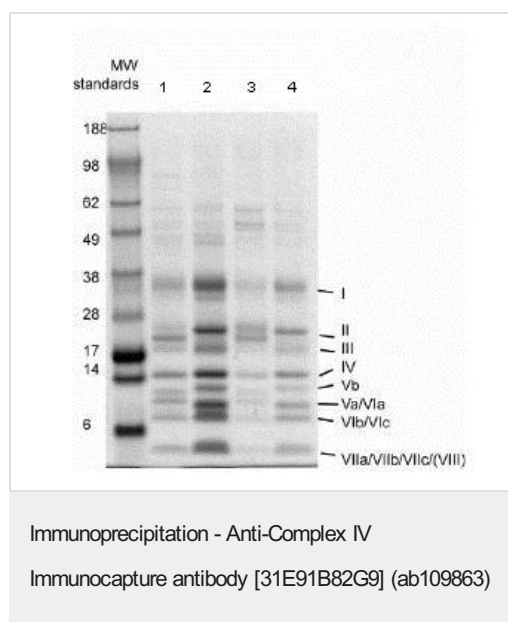
Immunocytochemistry/ Immunofluorescence - Anti-Complex IV Immunocapture antibody [31E91B82G9] (ab109863)

ICC/IF image of ab109863 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab109863, 5µg/ml) overnight at +4°C. The secondary antibody (green) was **ab96879**, DyLight® 488 goat anti-mouse IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Flow Cytometry - Anti-Complex IV Immunocapture antibody [31E91B82G9] (ab109863)

Overlay histogram showing HepG2 cells stained with ab109863 (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 (ab109863, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H+L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10⁶ cells) used under the same conditions. 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.



Staining of Complex IV Lane 1: 0.1 mg Human mitochondrial lysate
Lane 2: 0.1 mg Bovine mitochondrial lysate Lane 3: 0.025 mg
Human mitochondrial lysate Lane 4: 0.025 mg Bovine mitochondrial
lysate Immunoprecipitated using ab109863 at 100 µg/mg lysate

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors