

Product datasheet

Alexa Fluor® 647 Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker ab197491

1 Image

Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Alexa Fluor® 647 Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker  |
| <b>Description</b>         | Alexa Fluor® 647 Mouse monoclonal [mAbcam33985] to COX IV - Mitochondrial Marker  |
| <b>Host species</b>        | Mouse   |
| <b>Conjugation</b>         | Alexa Fluor® 647. Ex: 652nm, Em: 668nm  |
| <b>Tested applications</b> | <b>Suitable for:</b> ICC/IF   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Synthetic peptide corresponding to Human COX IV aa 150 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin.<br>(Peptide available as <a href="#">ab16381</a> )  |
| <b>Positive control</b>    | ICC/IF: HeLa cells.   |
| <b>General notes</b>       | <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 <a href="mailto:outlicensing@thermofisher.com">outlicensing@thermofisher.com</a>.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications &amp; species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™</p> |

guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

## Properties

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|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark. |
| <b>Storage buffer</b>       | pH: 7.40<br>Preservative: 0.02% Sodium azide<br>Constituents: PBS, 1% BSA, 30% Glycerol  |
| <b>Purity</b>               | Immunogen affinity purified  |
| <b>Clonality</b>            | Monoclonal   |
| <b>Clone number</b>         | mAbcam33985  |
| <b>Myeloma</b>              | Sp2  |
| <b>Isotype</b>              | IgG1   |

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab197491** 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   |
|-------------|-----------|---------|
| ICC/IF      |           | 1/1000. |

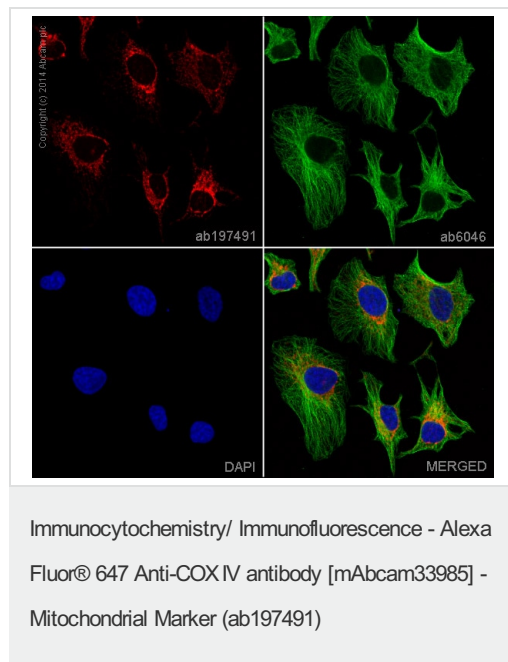
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## Target

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|                              |  |
|------------------------------|--|
| <b>Function</b>              | This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. |
| <b>Tissue specificity</b>    | Ubiquitous.  |
| <b>Sequence similarities</b> | Belongs to the cytochrome c oxidase IV family.   |
| <b>Cellular localization</b> | Mitochondrion inner membrane.  |

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ab197491 staining COX IV in HeLa cells. The cells were fixed with 100% methanol (5min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab197491 at 1/1000 dilution (shown in red) and ab6046 (Rabbit polyclonal to beta Tubulin) at 1µg/ml. This was followed by an incubation at room temperature for 1h with ab150081, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 488), pre-adsorbed, at 1µg/ml (shown in green). Nuclear DNA was labelled with DAPI (shown in blue).

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

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

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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