

Product datasheet

Anti-Ndufs4 antibody [2C7CD4AG3] ab87399

★★★★★ [5 Abreviews](#) [18 References](#) [2 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-Ndufs4 antibody [2C7CD4AG3] |
| Description | Mouse monoclonal [2C7CD4AG3] to Ndufs4 |
| Host species | Mouse |
| Tested applications | Suitable for: Flow Cyt, WB |
| Species reactivity | Reacts with: Mouse, Rat, Cow, Human |
| Immunogen | Recombinant full length protein. This information is considered to be commercially sensitive. |
| Positive control | WB: isolated mitochondria from human, bovine, rat, and mouse heart tissue. Flow Cyt: HepG2 cells. |
| General notes | <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> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| Storage buffer | pH: 7.5 Preservative: 0.02% Sodium azide Constituents: HEPES, Sodium chloride |
| Purity | IgG fraction |
| Purification notes | Near homogeneity as judged by SDS-PAGE. The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. |
| Clonality | Monoclonal |

| | |
|------------------|-----------|
| Clone number | 2C7CD4AG3 |
| Isotype | IgG1 |
| Light chain type | kappa |

Applications

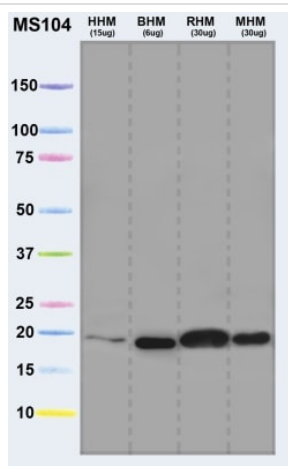
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab87399 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| Flow Cyt | ★★★★★ (1) | Use 1 µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |
| WB | ★★★★★ (4) | Use a concentration of 1 µg/ml. Detects a band of approximately 20 kDa (predicted molecular weight: 20 kDa). |

Target

| | |
|-------------------------------|--|
| Function | Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. |
| Involvement in disease | Defects in NDUFS4 are a cause of mitochondrial complex I deficiency (MT-C1D) [MIM:252010]. A disorder of the mitochondrial respiratory chain that causes a wide range of clinical disorders, from lethal neonatal disease to adult-onset neurodegenerative disorders. Phenotypes include macrocephaly with progressive leukodystrophy, non-specific encephalopathy, cardiomyopathy, myopathy, liver disease, Leigh syndrome, Leber hereditary optic neuropathy, and some forms of Parkinson disease. |
| Sequence similarities | Belongs to the complex I NDUFS4 subunit family. |
| Cellular localization | Mitochondrion inner membrane. |

Images



Western blot - Anti-Ndufs4 antibody [2C7CD4AG3] (ab87399)

All lanes : Anti-Ndufs4 antibody [2C7CD4AG3] (ab87399)

Lane 1 : Isolated mitochondria from human heart at 15 μ g

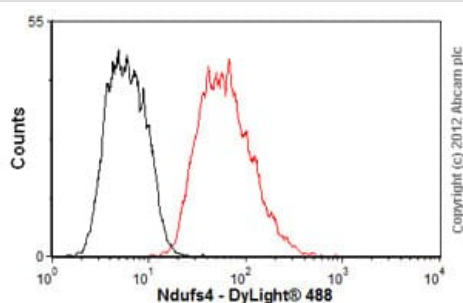
Lane 2 : Isolated mitochondria from bovine heart at 6 μ g

Lane 3 : Isolated mitochondria from rat heart at 30 μ g

Lane 4 : Isolated mitochondria from mouse heart at 30 μ g

Predicted band size: 20 kDa

Observed band size: 20 kDa



Flow Cytometry - Anti-Ndufs4 antibody [2C7CD4AG3] (ab87399)

Overlay histogram showing HepG2 cells stained with ab87399 (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 (ab87399, 1 μ g/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was Mouse IgG1 [ICIGG1] ([ab91353](#), 2 μ g/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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