**Product datasheet**

**Anti-NDUFS3 antibody [3F9DD2] ab110246**

★★★★☆ 7 Abreviews  49 References  7 Images

**Overview**

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-NDUFS3 antibody [3F9DD2]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Mouse monoclonal [3F9DD2] to NDUFS3</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Mouse</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: IHC-Fr, IHC-Glut, Flow Cyt, ICC/IF, IHC-P, WB</td>
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<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Mouse, Rat, Cow, Human, Zebrafish</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Tissue, cells or virus. This information is considered to be commercially sensitive.</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>Isolated mitochondria from Human, Bovine Rat and Mouse hearts; Cultured Human fibroblasts; HeLa cells; Human colon and cerebellum tissues.</td>
</tr>
<tr>
<td><strong>General notes</strong></td>
<td>This antibody clone is manufactured by Abcam.</td>
</tr>
<tr>
<td></td>
<td>If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact <a href="mailto:orders@abcam.com">orders@abcam.com</a> or you can find further information here.</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C. Do Not Freeze.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | Preservative: 0.02% Sodium azide  
Constituent: HEPES buffered saline |
| **Purity** | IgG fraction |
| **Purification notes** | ab110246 was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. ab110246 is judged as near homogeneity by SDS PAGE. |
| **Clonality** | Monoclonal |
| **Clone number** | 3F9DD2 |
| **Isotype** | IgG1 |
| **Light chain type** | kappa |

**Applications**
**Function**

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for 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.

**Sequence similarities**

Belongs to the complex I 30 kDa subunit family.

**Cellular localization**

Mitochondrion inner membrane.

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**Target**

**Function**

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for 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.

**Sequence similarities**

Belongs to the complex I 30 kDa subunit family.

**Cellular localization**

Mitochondrion inner membrane.

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**Images**

1. **All lanes**: Anti-NDUFS3 antibody [3F9DD2] (ab110246) at 1/1000 dilution
2. **Lanes 1-2**: Whole cell lysates from NDUFS3 KO cells.
3. **Lanes 3-4**: Whole cell lysates from NDUFS3 WT cells.
4. **Lanes 5-6**: Isolated mitochondria from NDUFS3 KO cells.
5. **Lanes 7-8**: Isolated mitochondria from NDUFS3 WT cells.

Lysates/proteins at 50 µg per lane.

**Secondary**

**All lanes**: Goat anti-Mouse monoclonal HRP conjugate at 1/5000 dilution

Developed using the ECL technique.

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Our Abpromise guarantee covers the use of **ab110246** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-Fr</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 25223649</td>
</tr>
<tr>
<td>IHC-Glut</td>
<td></td>
<td>1/100.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use a concentration of 1 µg/ml. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 5 - 10 µg/ml.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>1/100 - 1/1000. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.</td>
<td></td>
</tr>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐</td>
<td>Use a concentration of 0.5 µg/ml. Predicted molecular weight: 30 kDa.</td>
</tr>
</tbody>
</table>
Performed under reducing conditions.

**Predicted band size:** 30 kDa  
**Additional bands at:** 260 kDa (possible non-specific binding), 40 kDa (possible non-specific binding)

**Exposure time:** 1 minute

**All lanes:** Anti-NDUFS3 antibody [3F9DD2] (ab110246) at 0.5 µg/ml

**Lane 1:** Isolated mitochondria from Human heart at 5 µg  
**Lane 2:** Isolated mitochondria from Bovine heart at 1 µg  
**Lane 3:** Isolated mitochondria from Rat heart at 10 µg  
**Lane 4:** Isolated mitochondria from Mouse heart at 10 µg

**Predicted band size:** 30 kDa

ab110246, at 10 µg/ml, staining NDUFS3 in cultured Human fibroblasts by Immunofluorescence. The cells were fixed, treated for heat-induced antigen retrieval, permeabilized and then labeled with ab110246, followed by a fluorescent goat-anti-mouse IgG.
ab110246, at 1 µg/ml, staining NDUFS3 in HeLa cells by Flow Cytometry (Blue).
Isotype control antibody, at 1 µg/ml, staining (red).

ab110246, at 1/100, staining NDUFS3 in Human colon tissue fixed with 4% PFA by Immunohistochemistry.
ab110246 was labeled with a universal probe (which recognizes antibodies raised in both mouse and rabbit species) for 30 minutes and a HRP-polymer probe for 30 minutes. ab110246 was diluted and incubated for 1 hour with the target. Antigen retrieval was not required.

ab110246, at 1/1000, staining NDUFS3 in formalin fixed and paraffin embedded Human cerebellum tissue by Immunohistochemistry.
ab110246 was labeled with a universal probe (which recognizes antibodies raised in both mouse and rabbit species) for 30 minutes and a HRP-polymer probe for 30 minutes. ab110246 was diluted and incubated with the target for 1 hour. Antigen retrieval performed by 1 min pressure cooking with 1mmol EDTA, pH8.
ab110246 staining NDUFS3 in Human colon tissue sections from a normal ageing patient by Immunohistochemistry. Kindly provided by Dr. L. Greaves and D. Turnbull, Mitochondrial Research Group, Newcastle University. For more details, see Taylor et al., J. Clin. Invest. 112:1351-1360 (2003).

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

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