abcam

Product datasheet

Anti-NDUFS3 antibody [3F9DD2] ab110246

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Overview

Product name	Anti-NDUFS3 antibody [3F9DD2]
Description	Mouse monoclonal [3F9DD2] to NDUFS3
Host species	Mouse
Tested applications	**Suitable for:** Flow Cyt, ICC/IF, IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Rat, Cow, Human
Immunogen	Tissue, cells or virus. This information is considered to be commercially sensitive.
Positive control	Isolated mitochondria from Human, Bovine Rat and Mouse hearts; Cultured Human fibroblasts; HeLa cells; Human colon and cerebellum tissues.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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. 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 Product was previously marketed under the MitoSciences sub-brand.

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 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

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

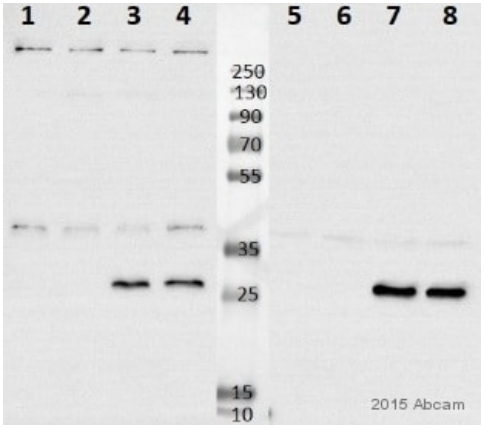
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use a concentration of 1 µg/ml. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF	★★★★☆ (1)	Use a concentration of 5 - 10 µg/ml.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.
WB	★★★★☆ (4)	Use a concentration of 0.5 µg/ml. Predicted molecular weight: 30 kDa.

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.

Images



Western blot - Anti-NDUFS3 antibody [3F9DD2] (ab110246)

This image is courtesy of an anonymous AbReview

All lanes : Anti-NDUFS3 antibody [3F9DD2] (ab110246) at 1/1000 dilution

Lanes 1-2 : Whole cell lysates from NDUFS3 KO cells.
Lanes 3-4 : Whole cell lysates from NDUFS3 WT cells.
Lanes 5-6 : Isolated mitochondria from NDUFS3 KO cells.
Lanes 7-8 : Isolated mitochondria from NDUFS3 WT cells.

Lysates/proteins at 50 µg per lane.

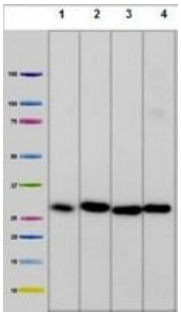
Secondary
All lanes : Goat anti-Mouse monoclonal HRP conjugate at 1/5000 dilution

Developed using the ECL technique.

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

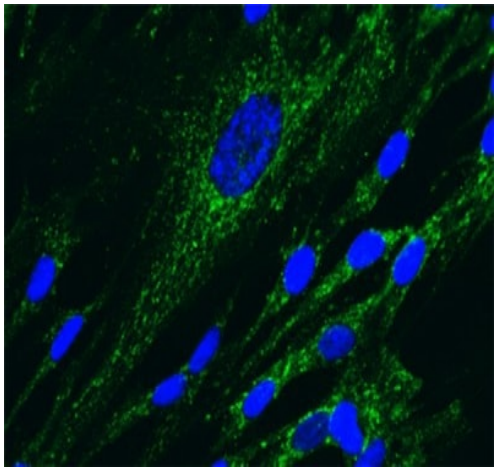


Western blot - Anti-NDUFS3 antibody [3F9DD2] (ab110246)

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

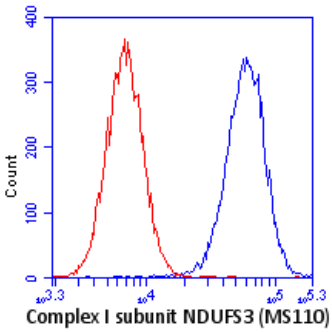
Lane 1 : Isolated mitochondria from Human heart at 5 µg
Lane 2 : Isolated mitochondria from Bovine heart at 1 µg
Lane 3 : Isolated mitochondria from Rat heart at 10 µg
Lane 4 : Isolated mitochondria from Mouse heart at 10 µg

Predicted band size: 30 kDa



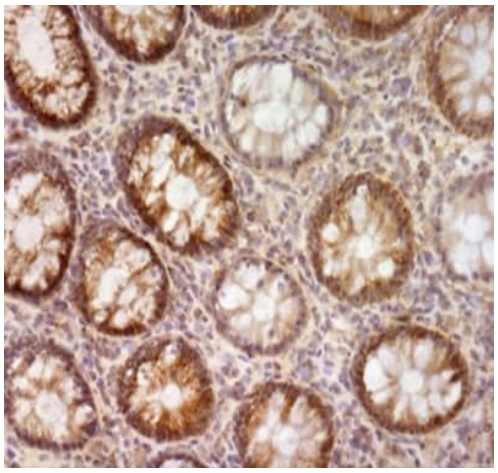
Immunocytochemistry/ Immunofluorescence - Anti-NDUFS3 antibody [3F9DD2] (ab110246)

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.



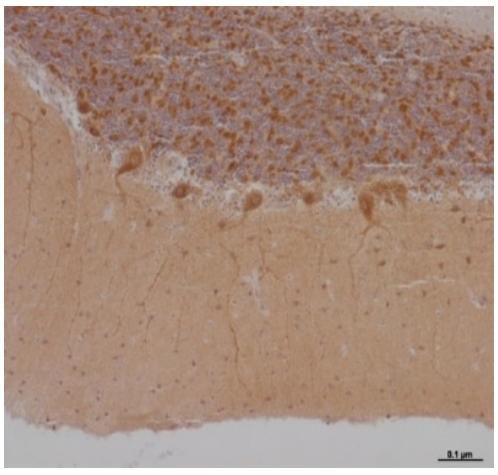
Flow Cytometry - Anti-NDUFS3 antibody [3F9DD2] (ab110246)

ab110246, at 1 µg/ml, staining NDUFS3 in HeLa cells by Flow Cytometry (Blue).
Isotype control antibody, at 1 µg/ml, staining (red).



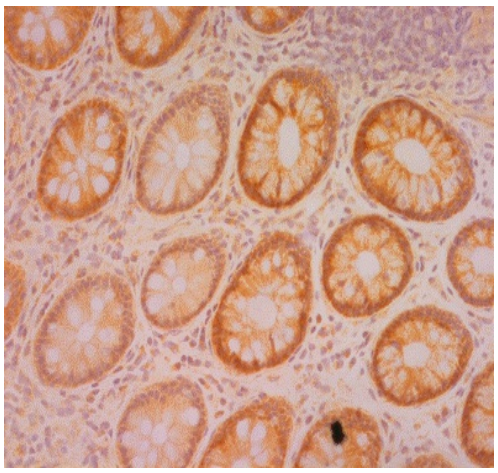
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFS3 antibody [3F9DD2] (ab110246)

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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFS3 antibody [3F9DD2] (ab110246)

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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFS3 antibody [3F9DD2] (ab110246)

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).

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