


Product datasheet

Anti-NDUFB8 antibody [20E9DH10C12] ab110242

★★★★★ [5 Abreviews](#) [189 References](#) [3 Images](#)

Overview

Product name	Anti-NDUFB8 antibody [20E9DH10C12]
Description	Mouse monoclonal [20E9DH10C12] to NDUFB8
Host species	Mouse
Tested applications	Suitable for: WB, IHC-Fr
Species reactivity	Reacts with: Mouse, Rat, Cow, Human Predicted to work with: Pig 
Immunogen	Full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	Isolated mitochondria from Human heart, bovine heart, rat heart and mouse heart. Skeletal muscle tissue.
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.
Storage buffer	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
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 20E9DH10C12
 Isotype IgG1
 Light chain type kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab110242 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
WB	★★★★★ (3)	Use a concentration of 0.5 µg/ml. Predicted molecular weight: 22 kDa.
IHC-Fr		Use at an assay dependent concentration.

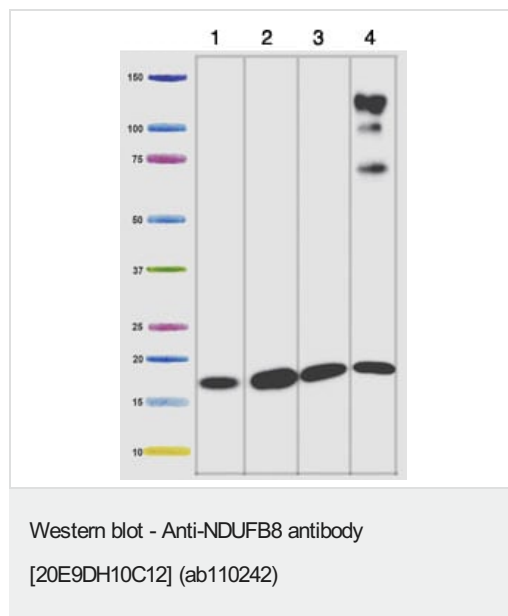
Target

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.

Sequence similarities Belongs to the complex I NDUFB8 subunit family.

Cellular localization Mitochondrion inner membrane.

Images



All lanes : Anti-NDUFB8 antibody [20E9DH10C12] (ab110242) at 0.5 µg/ml

Lane 1 : Isolated mitochondria from Human heart at 5 µg

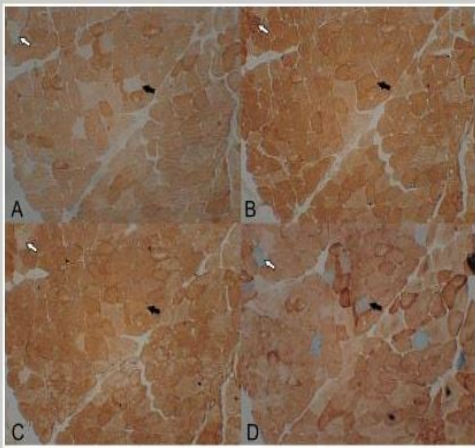
Lane 2 : Isolated mitochondria from cow heart at 1 µg

Lane 3 : Isolated mitochondria from rat heart at 10 µg

Lane 4 : Isolated mitochondria from mouse heart at 10 µg

Predicted band size: 22 kDa

Extra bands in the mouse sample (lane 4) are due to the reaction of the IgG-specific goat anti-mouse secondary antibody with residual mouse blood in the heart tissue, as it is very difficult to entirely remove the blood from these small organs.



Immunohistochemistry (Frozen sections) - Anti-NDUFB8 antibody [20E9DH10C12] (ab110242)

Wedding, I.M. et al PLoS One. 2014 Jan 22;9(1):e86340. doi: 10.1371/journal.pone.0086340. eCollection 2014. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

Immunohistochemistry in serial sections of the muscle of patient AIV-5

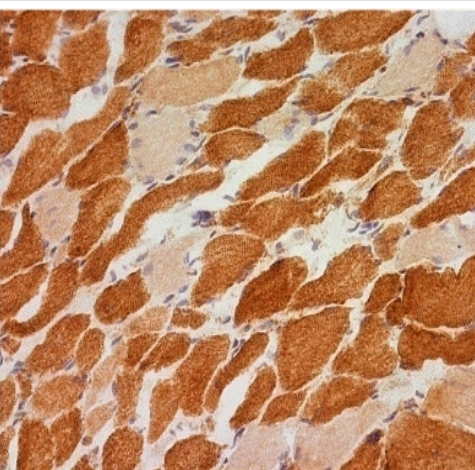
The patient is suffering from Spastic paraplegia 7.

Immunohistochemistry for complex I (NDUFB8) (A), complex II (B), complex III (C) and COX/SDH histochemistry (D) in serial sections of the muscle of patient AIV-5. There are complex I, III and IV deficient fibres, but complex I deficiency is most pronounced.

Arrows mark serial sections of the same muscle fibers stained for different complexes.

NDUFB8 (also referred to as complex I) was detected using ab110242 at 1/100 dilution).

(After Figure 3 of Wedding et al)



Immunohistochemistry (Frozen sections) - Anti-NDUFB8 antibody [20E9DH10C12] (ab110242)

Skeletal muscle immunohistochemistry using ab110242 on frozen tissue sections from a patient with a single large deletion of the mtDNA show a mosaic of complex I positive and complex I negative fibers.

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