abcam

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	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.
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.

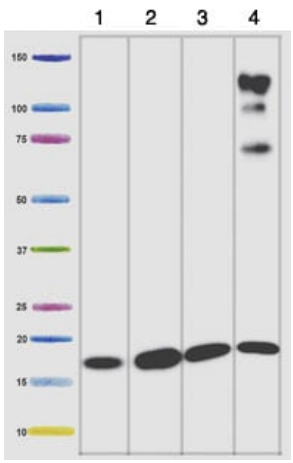
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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



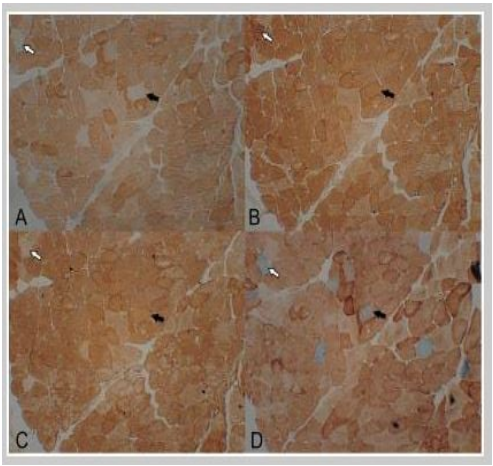
Western blot - Anti-NDUFB8 antibody [20E9DH10C12] (ab110242)

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)

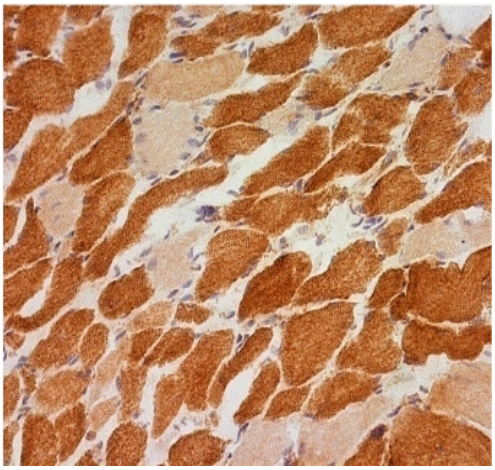
Immunohistochemistry in serial sections of the muscle of patient AIV-5

The patient is sufferening 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 refered 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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