

Product datasheet

Anti-NDUFB9 antibody [EPR15955] ab188581

KO VALIDATED Recombinant RabMAb

7 Images

Overview

Product name	Anti-NDUFB9 antibody [EPR15955]
Description	Rabbit monoclonal [EPR15955] to NDUFB9
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, Flow Cyt, ICC/IF, IP
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant fragment within Human NDUFB9 aa 50 to the C-terminus. The exact sequence is proprietary. Database link: Q9Y6M9
Positive control	WB: Human fetal liver, HeLa, 293 and Jurkat lysates. IHC-P: Human kidney tissue. ICC/IF: HeLa cells. Flow Cyt: HeLa cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.</p>

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15955
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab188581** 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
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000 - 1/10000. Detects a band of approximately 22 kDa (predicted molecular weight: 21 kDa).
Flow Cyt		1/440. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100.
IP		1/50.

Target

Function	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed to be not 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
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believed to be ubiquinone.

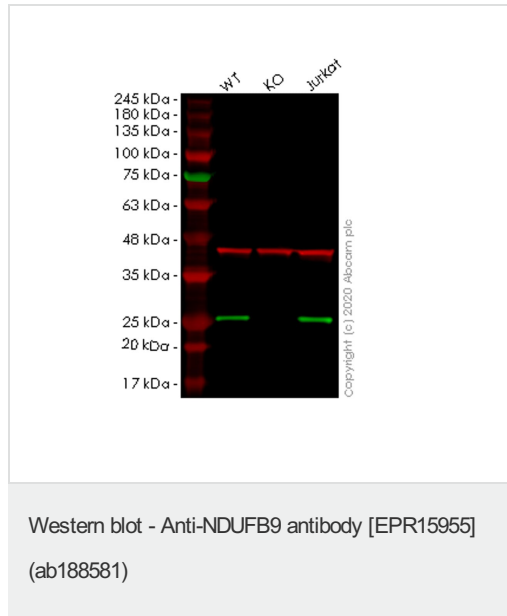
Sequence similarities

Belongs to the complex I LYR family.

Cellular localization

Mitochondrion inner membrane.

Images



All lanes : Anti-NDUFB9 antibody [EPR15955] (ab188581) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : NDUFB9 knockout HeLa cell lysate

Lane 3 : Jurkat cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

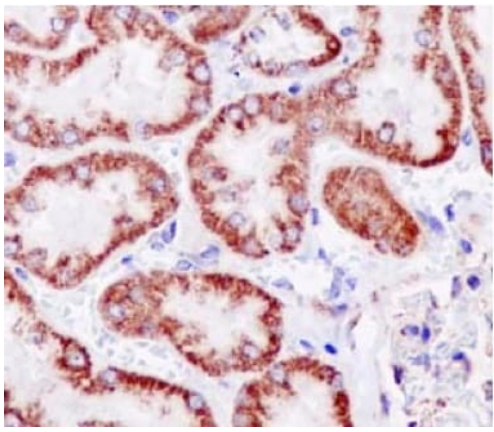
Predicted band size: 21 kDa

Observed band size: 22 kDa

[why is the actual band size different from the predicted?](#)

Lanes 1-3: Merged signal (red and green). Green - ab188581 observed at 22 kDa. Red - loading control ab8245 observed at 36 kDa.

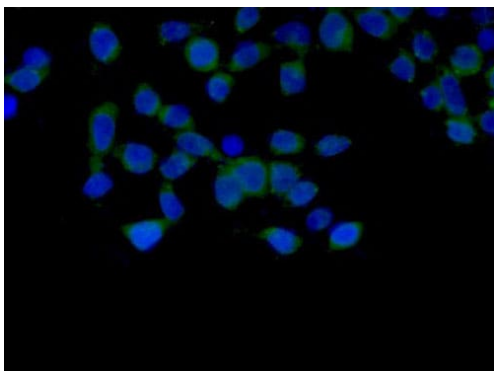
ab188581 Anti-NDUFB9 antibody [EPR15955] was shown to specifically react with NDUFB9 in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265946 (knockout cell lysate ab258065) was used. Wild-type and NDUFB9 knockout samples were subjected to SDS-PAGE. ab188581 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUF9 antibody [EPR15955] (ab188581)

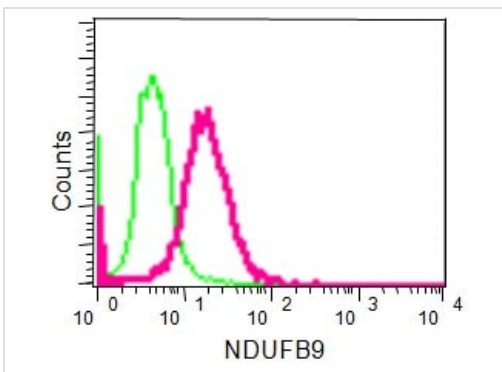
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling NDUF9 with ab188581 at 1/500 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



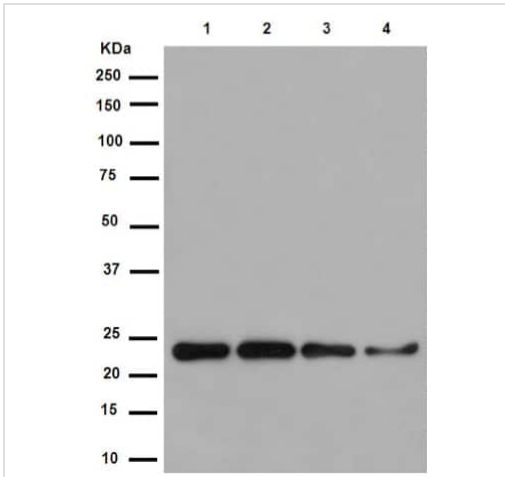
Immunocytochemistry/ Immunofluorescence - Anti-NDUF9 antibody [EPR15955] (ab188581)

Immunofluorescent analysis of 4% paraformaldehyde-fixed 293 cells labeling NDUF9 with ab188581 at 1/100 dilution followed by Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody at 1/200 dilution. Counter stained with Dapi.



Flow Cytometry - Anti-NDUF9 antibody [EPR15955] (ab188581)

Flow cytometric analysis of 2% paraformaldehyde-fixed HeLa cells labeling NDUF9 with ab188581 at 1/440 dilution compared to a Rabbit monoclonal IgG isotype control, followed by Goat anti rabbit IgG (FITC) secondary antibody at 1/150 dilution.



Western blot - Anti-NDUFB9 antibody [EPR15955] (ab188581)

All lanes : Anti-NDUFB9 antibody [EPR15955] (ab188581) at 1/10000 dilution

Lane 1 : Human fetal liver lysate

Lane 2 : HeLa cell lysate

Lane 3 : 293 cell lysate

Lane 4 : Jurkat cell lysate

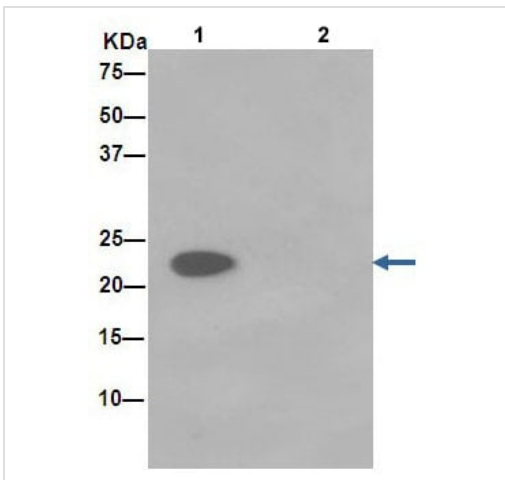
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 21 kDa

Observed band size: 22 kDa [why is the actual band size different from the predicted?](#)



Immunoprecipitation - Anti-NDUFB9 antibody [EPR15955] (ab188581)

Western blot analysis of NDUFB9 immunoprecipitated from Human fetal liver lysate using ab188581 at 1/50 (Lane 1). Lane 2: PBS instead of Human fetal liver lysates.

Secondary antibody: Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-NDUFB9 antibody [EPR15955] (ab188581)

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

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