


## 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	<b>Suitable for:</b> Flow Cyt (Intra), IHC-P, WB, ICC/IF, IP
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Rat 
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal liver, HeLa, 293 and Jurkat lysates. IHC-P: Human kidney tissue. ICC/IF: HeLa cells. Flow Cyt (intra): HeLa cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a>.</p>

#### 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

### The Abpromise guarantee

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
Flow Cyt (Intra)		1/440. <b>ab172730</b> - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
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).
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 believed to be ubiquinone.

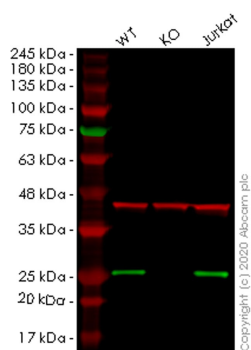
### Sequence similarities

Belongs to the complex I LYR family.

### Cellular localization

Mitochondrion inner membrane.

## Images



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

**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

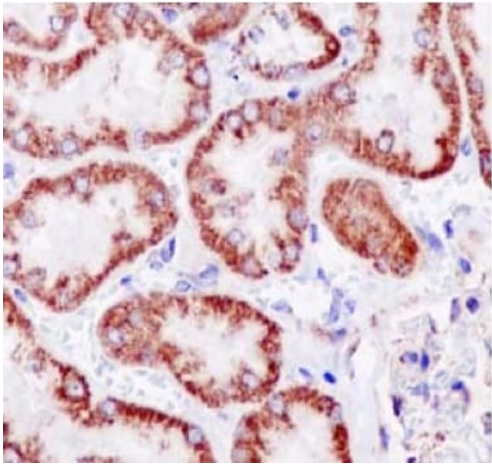
**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

**Predicted band size:** 21 kDa

**Observed band size:** 22 kDa

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

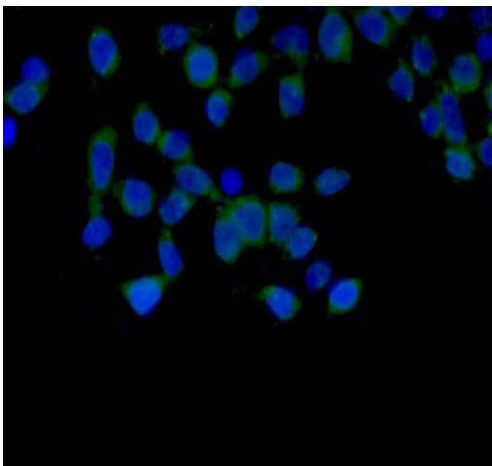
ab188581 Anti-NDUFB9 antibody [EPR15955] was shown to specifically react with NDUFB9 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265946](#) (knockout cell lysate [ab258065](#)) was used. Wild-type and NDUFB9 knockout samples were subjected to SDS-PAGE. ab188581 and 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)

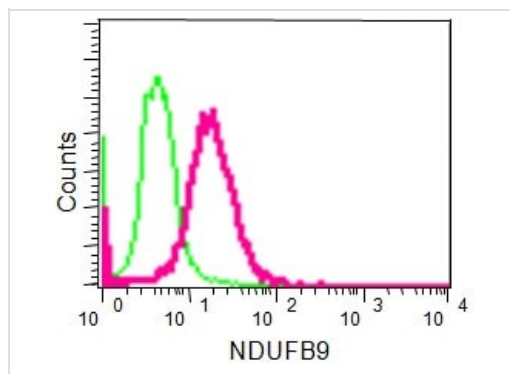
Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling NDUF9 with ab188581 at 1/500 dilution followed by prediluted HRP Polymer for Rabbit IgG. Counter stained with Hematoxylin.

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



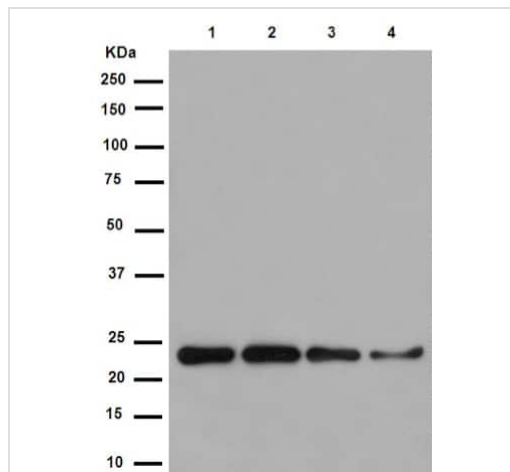
Immunocytochemistry/ Immunofluorescence - Anti-NDUF9 antibody [EPR15955] (ab188581)

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 (Intracellular) - Anti-NDUF9  
antibody [EPR15955] (ab188581)

Intracellular 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-NDUF9 antibody [EPR15955]  
(ab188581)

**All lanes :** Anti-NDUF9 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

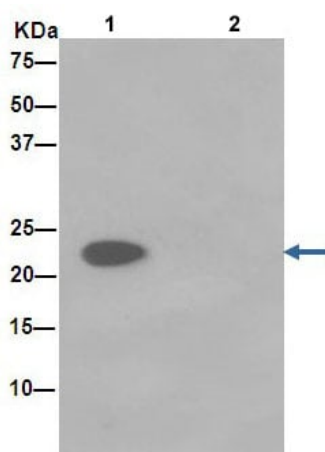
Lysates/proteins at 20 µg per lane.

### 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



Western blot analysis of NDUF9 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.

Immunoprecipitation - Anti-NDUF9 antibody  
[EPR15955] (ab188581)

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-NDUF9 antibody [EPR15955] (ab188581)

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

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