


Product datasheet

Anti-NDUFV2 antibody [EPR15351(B)] αb183715

KO **VALIDATED** Recombinant RabMAb

★★★★★ [1 Abreviews](#) [7 References](#) [8 Images](#)

Overview

Product name	Anti-NDUFV2 antibody [EPR15351(B)]
Description	Rabbit monoclonal [EPR15351(B)] to NDUFV2
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: A549, Jurkat, HeLa and Ramos cell lysates; Human fetal heart lysate. IHC-P: Human hepatocellular carcinoma tissue. ICC/IF: Jurkat cells. Flow Cyt (intra): Jurkat 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>

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	EPR15351(B)

Isotype

IgG

Applications

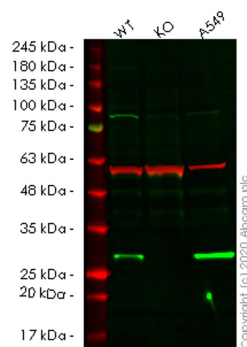
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab183715 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/80.
WB	★★★★★ (1)	1/1000 - 1/20000. Detects a band of approximately 24 kDa (predicted molecular weight: 27 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100.
IP		1/50 - 1/70.

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 24 kDa subunit family.
Cellular localization	Mitochondrion inner membrane.

Images



Western blot - Anti-NDUFV2 antibody
[EPR15351(B)] (ab183715)

All lanes : Anti-NDUFV2 antibody [EPR15351(B)] (ab183715) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : NDUFV2 knockout HeLa cell lysate

Lane 3 : A549 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

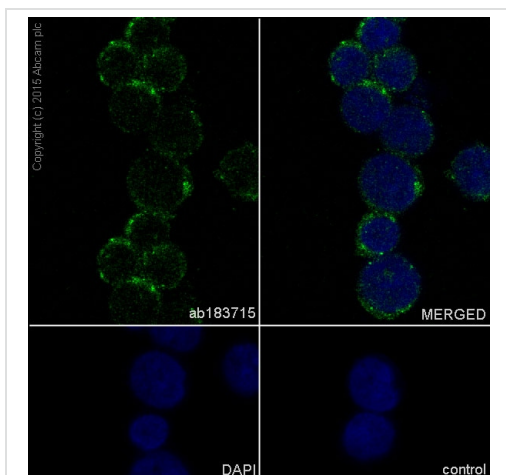
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 27 kDa

Observed band size: 27 kDa

Lanes 1-3: Merged signal (red and green). Green - ab183715 observed at 27 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

ab183715 Anti-NDUFV2 antibody [EPR15351(B)] was shown to specifically react with NDUFV2 in wild-type HeLa cells. Loss of signal was observed when knockout cell line [ab265619](#) (knockout cell lysate [ab258068](#)) was used. Wild-type and NDUFV2 knockout samples were subjected to SDS-PAGE. ab183715 and Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) 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.

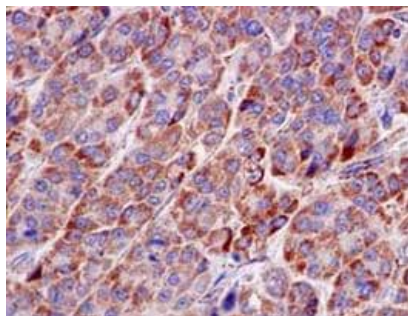


Immunocytochemistry/ Immunofluorescence - Anti-NDUFV2 antibody [EPR15351(B)] (ab183715)

Immunocytochemistry/Immunofluorescence analysis of Jurkat cells labelling NDUFV2 with ab183715 at 1/1000. Cells were fixed with 100% Methanol. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody.

Control: PBS only.

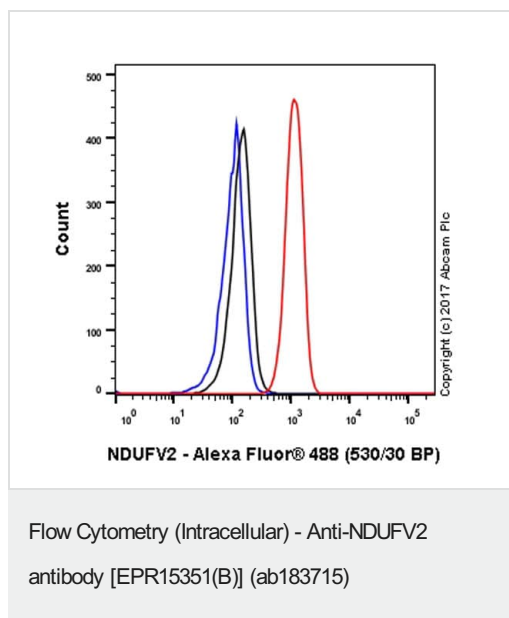
Nuclear counter stain: DAPI.



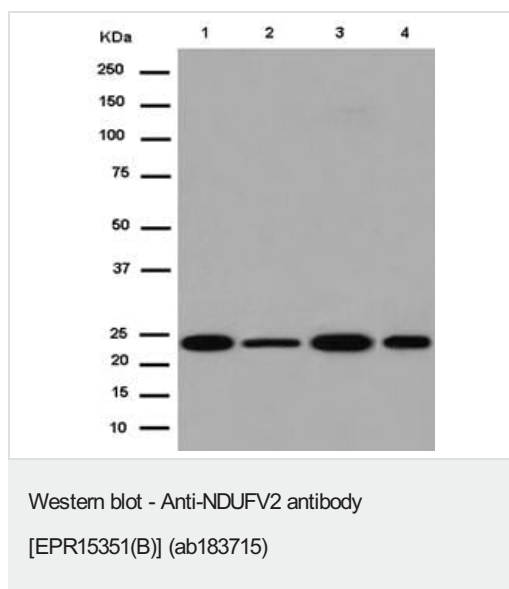
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFV2 antibody [EPR15351(B)] (ab183715)

Immunohistochemical analysis of paraffin-embedded, Human hepatocellular carcinoma tissue labeling NDUFV2 with ab183715 at a 1/500 dilution. Counter stained with hematoxylin.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling NDUFV2 with purified ab183715 at 1/80 dilution (10ug/mL) (red). Cells were fixed with 80% methanol and permeabilised using 0.1% Tween-20. A Goat anti rabbit IgG (Alexa Fluor®488) ([ab150077](#)) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black) ([ab172730](#)). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



All lanes : Anti-NDUFV2 antibody [EPR15351(B)] (ab183715) at 1/1000 dilution

Lane 1 : A549 cell lysate

Lane 2 : Jurkat cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : Ramos cell lysate

Lysates/proteins at 10 µg per lane.

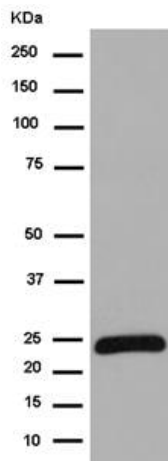
Secondary

All lanes : goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000 dilution

Developed using the ECL technique.

Predicted band size: 27 kDa

Observed band size: 24 kDa



Western blot - Anti-NDUFV2 antibody
[EPR15351(B)] (ab183715)

Anti-NDUFV2 antibody [EPR15351(B)] (ab183715) at 1/20000
dilution + Human fetal heart lysate at 20 µg

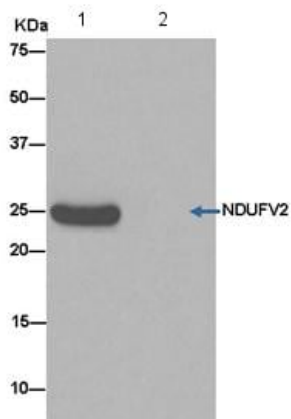
Secondary

goat anti-rabbit IgG, (H+L), peroxidase conjugated at 1/1000
dilution

Developed using the ECL technique.

Predicted band size: 27 kDa

Observed band size: 24 kDa



Immunoprecipitation - Anti-NDUFV2 antibody
[EPR15351(B)] (ab183715)

Western blot analysis on immunoprecipitation from 1) Human fetal
heart lysate, or 2) TBS, labeling NDUFV2 using ab183715 at 1/50
dilution and HRP-conjugated anti-rabbit IgG preferentially detecting
the non-reduced form of rabbit IgG at a 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-NDUFV2 antibody [EPR15351(B)] (ab183715)

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