


Product datasheet

Anti-NDUFV2 antibody [EPR15350(B)] ab183717

KO VALIDATED Recombinant RabMAB

[1 References](#) [5 Images](#)

Overview

Product name	Anti-NDUFV2 antibody [EPR15350(B)]
Description	Rabbit monoclonal [EPR15350(B)] to NDUFV2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, 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: HeLa, Ramos, Jurkat and A549 cell lysates. IHC-P: Human endometrial adenocarcinoma tissue.
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	EPR15350(B)

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab183717 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		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/10000 - 1/50000. Detects a band of approximately 24 kDa (predicted molecular weight: 27 kDa).
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.

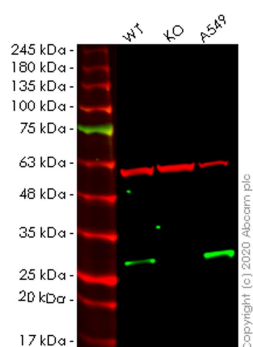
Sequence similarities

Belongs to the complex I 24 kDa subunit family.

Cellular localization

Mitochondrion inner membrane.

Images



Western blot - Anti-NDUFV2 antibody [EPR15350(B)] (ab183717)

All lanes : Anti-NDUFV2 antibody [EPR15350(B)] (ab183717) 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

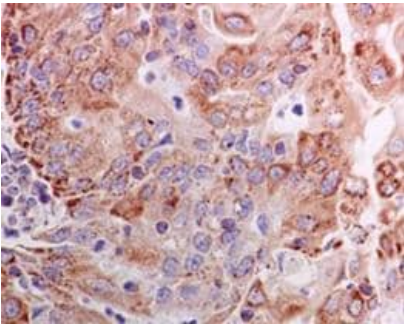
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 27 kDa

Observed band size: 27 kDa

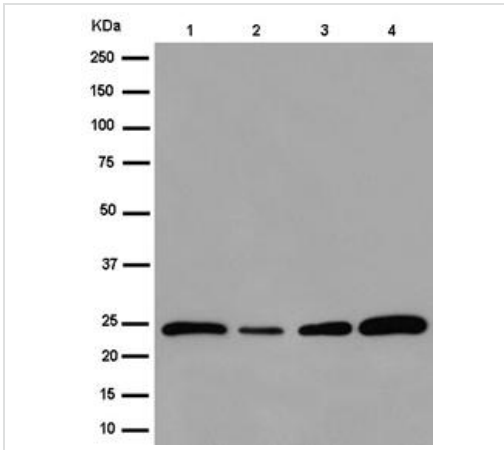
Lanes 1-3: Merged signal (red and green). Green - ab183717 observed at 27 kDa. Red - loading control **ab7291** observed at 50 kDa.

ab183717 Anti-NDUFV2 antibody [EPR15350(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. ab183717 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.



Immunohistochemical analysis of paraffin-embedded, Human endometrial adenocarcinoma tissue labeling NDUFV2 with ab183717 at a 1/100 dilution. Counter stained with hematoxylin. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFV2 antibody [EPR15350(B)] (ab183717)



Western blot - Anti-NDUFV2 antibody
[EPR15350(B)] (ab183717)

All lanes : Anti-NDUFV2 antibody [EPR15350(B)] (ab183717) at 1/20000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : Ramos cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : A549 cell lysate

Lysates/proteins at 20 µg per lane.

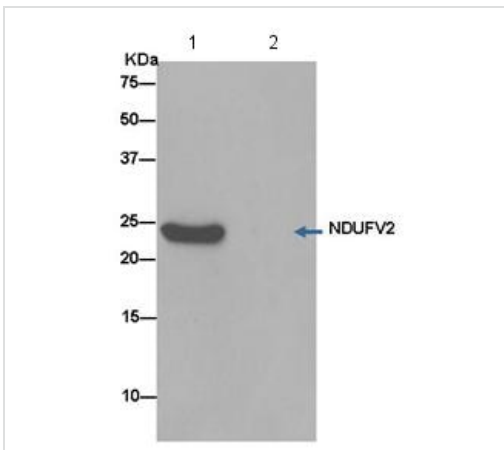
Secondary

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



Immunoprecipitation - Anti-NDUFV2 antibody
[EPR15350(B)] (ab183717)

Western blot analysis on immunoprecipitation from 1) A549 cell lysate, or 2) TBS, labeling NDUFV2 using ab183717 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?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-NDUFV2 antibody [EPR15350(B)] (ab183717)

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