abcam

Product datasheet

Anti-NDUFB10 antibody [EPR16230-47] ab196019

Recombinant RabMAb

★★★★★ 1 Abreviews 4 References 6 Images

Overview

Product name	Anti-NDUFB10 antibody [EPR16230-47]
Description	Rabbit monoclonal [EPR16230-47] to NDUFB10
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, IP, IHC-P, WB, Flow Cyt
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment within Human NDUFB10 aa 50 to the C-terminus. The exact sequence is proprietary. Database link: O96000
Positive control	HeLa, HepG2 and Jurkat cell lysates; Human transitional cell carcinoma of bladder tissue; HeLa cells; HeLa whole cell extract.

General notes

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

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.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

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.

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: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16230-47
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab196019** in the following tested applications.

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

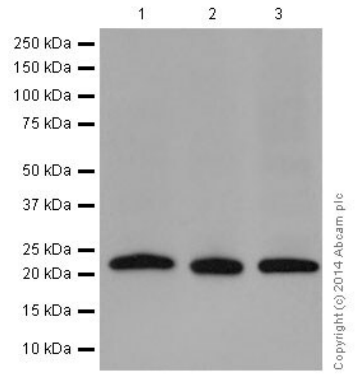
Application	Abreviews	Notes
ICC/IF	★★★★★	1/350.
IP		1/50.
IHC-P		1/250. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/10000. Detects a band of approximately 21 kDa (predicted molecular weight: 21 kDa).
Flow Cyt		1/800.

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 NDUFB10 subunit family.
Cellular localization	Mitochondrion inner membrane.

Images



Western blot - Anti-NDUFB10 antibody [EPR16230-47] (ab196019)

All lanes : Anti-NDUFB10 antibody [EPR16230-47] (ab196019) at 1/10000 dilution

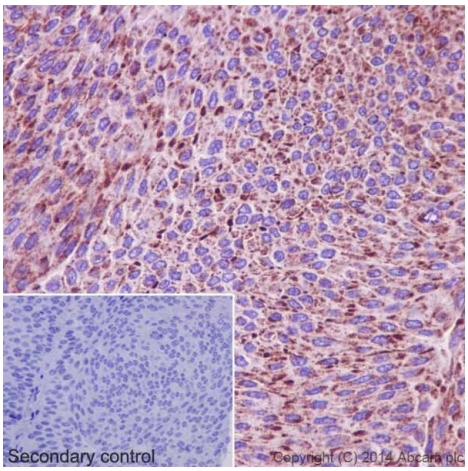
Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) cell lysate
Lane 2 : HepG2 (Human liver hepatocellular carcinoma) cell lysate
Lane 3 : Jurkat (Human T cell leukemia cells from peripheral blood) cell lysate

Lysates/proteins at 20 µg per lane.

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

Predicted band size: 21 kDa
Observed band size: 21 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

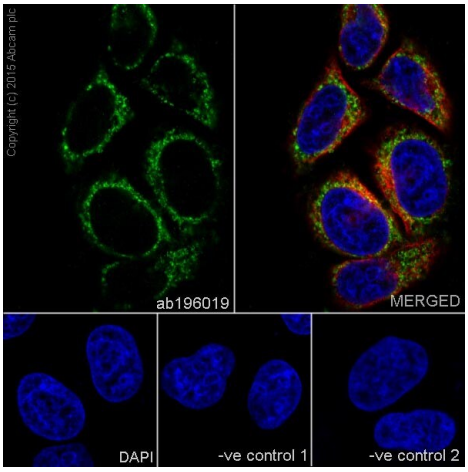


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFB10 antibody [EPR16230-47] (ab196019)

Immunohistochemical analysis of paraffin-embedded Human transitional cell carcinoma of bladder tissue labeling NDUFB10 with ab196019 at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) secondary antibody at 1/500 dilution. Cytoplasm staining on Human transitional cell carcinoma of bladder tissue is observed. Counter stained with Hematoxylin.

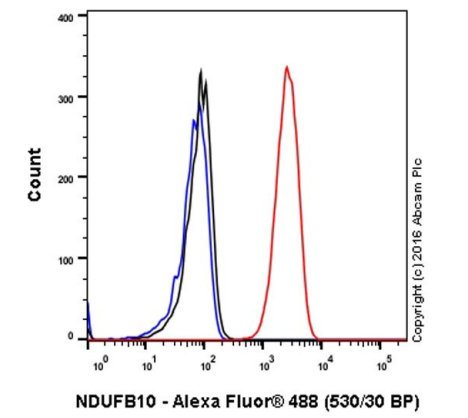
Secondary control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution.

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



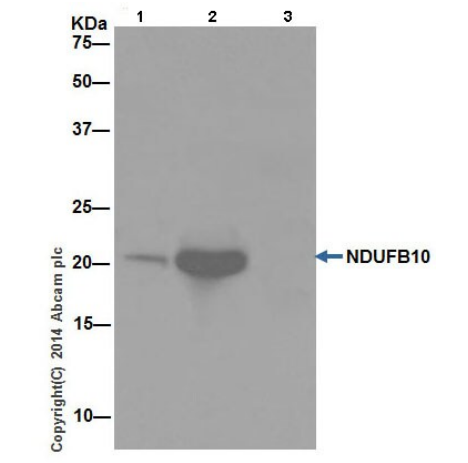
Immunocytochemistry/ Immunofluorescence - Anti-NDUFB10 antibody [EPR16230-47] (ab196019)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling NDUFB10 with ab196019 at 1/350 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/500 dilution (green). Cytoplasm staining on HeLa cell line is observed. The nuclear counter stain is DAPI (blue).



Flow Cytometry - Anti-NDUFB10 antibody [EPR16230-47] (ab196019)

Flow cytometry analysis of HeLa (human cervix adenocarcinoma) cells labelling NDUFB10 (red) with purified ab196019 at a dilution of 1/800. The secondary antibody used was Alexa Fluor® 488 goat-anti-rabbit IgG (1/2000). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Isotype control antibody was rabbit monoclonal IgG (black). The blue line shows cells without incubation with primary and secondary antibody.



Immunoprecipitation - Anti-NDUFB10 antibody [EPR16230-47] (ab196019)

NDUFB10 was immunoprecipitated from HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell extract with ab196019 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab196019 at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution.

Lane 1: HeLa whole cell extract 10 µg (Input). Lane 2: ab196019 IP in HeLa whole cell extract. Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab196019 in HeLa whole cell extract. Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Anti-NDUFB10 antibody [EPR16230-47] (ab196019)

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

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