

## Product datasheet

# Anti-NDUFB7 antibody [EPR15903] ab188575

Recombinant RabMAb

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### Overview

<b>Product name</b>	Anti-NDUFB7 antibody [EPR15903]
<b>Description</b>	Rabbit monoclonal [EPR15903] to NDUFB7
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt, WB, IHC-P, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HL-60, PC-3, A431 Whole cell lysates IP: A431 whole cell lysate; Flow cyt: A431 cells; ICC/IF: A431 cells; IHC: human thyroid carcinoma tissue
<b>General notes</b>	<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<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR15903
<b>Isotype</b>	IgG

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab188575 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		1/2000.
WB		1/1000. Detects a band of approximately 16 kDa (predicted molecular weight: 16 kDa).
IHC-P		1/550. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. For the unpurified format use 1/50 - 1/100
ICC/IF	★★★★★ (1)	1/250.
IP		1/100. For the unpurified format use 1/40

## Target

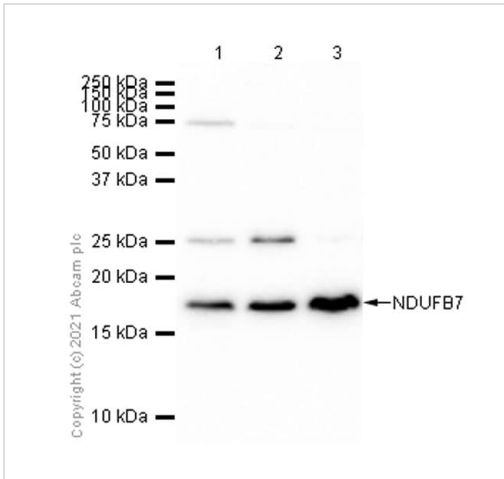
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<b>Function</b>	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.
<b>Sequence similarities</b>	Belongs to the complex I NDUFB7 subunit family.
<b>Domain</b>	Contains two C-X9-C motifs that are predicted to form a helix-coil-helix structure, permitting the formation of intramolecular disulfide bonds.
<b>Cellular localization</b>	Mitochondrion. Mitochondrion inner membrane. Mitochondrion intermembrane space.

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## Images

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Western blot - Anti-NDUF7 antibody [EPR15903] (ab188575)

**All lanes :** Anti-NDUF7 antibody [EPR15903] (ab188575) at 1/1000 dilution (Purified)

**Lane 1 :** HL-60 (uman acute promyelocytic leukemia promyeloblast) whole cell lysate

**Lane 2 :** PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate

**Lane 3 :** A431 (Human epidermoid carcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

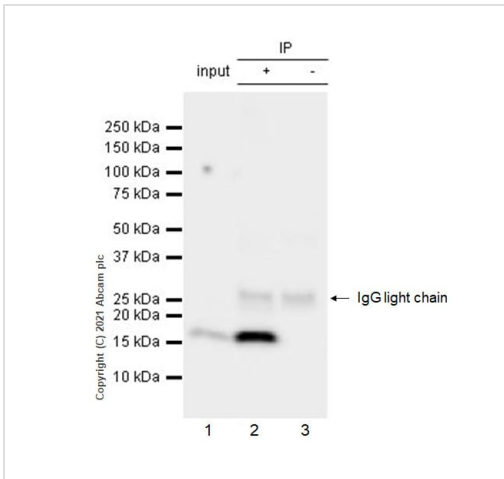
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 16 kDa

**Observed band size:** 16 kDa

We are unsure about the nature of the extra bands.



Immunoprecipitation - Anti-NDUF7 antibody [EPR15903] (ab188575)

Purified ab188575 at 1:100 dilution (2µg) immunoprecipitating NDUF7 in A431 whole cell lysate.

Lane 1 (input): A431 (Human epidermoid carcinoma epithelial cell) whole cell lysate 10µg.

Lane 2 (+): ab188575 + A431 whole cell lysate.

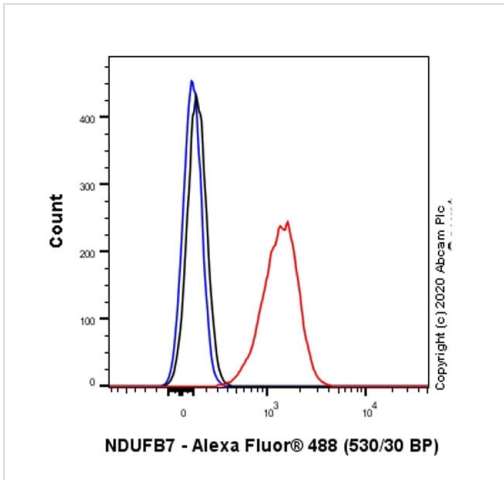
Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab188575 in A431 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) (1:1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

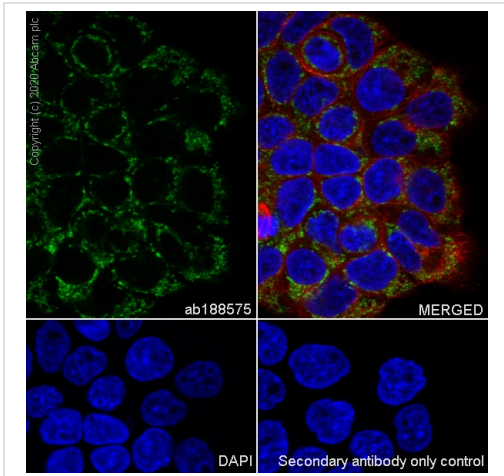
Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 16 kDa



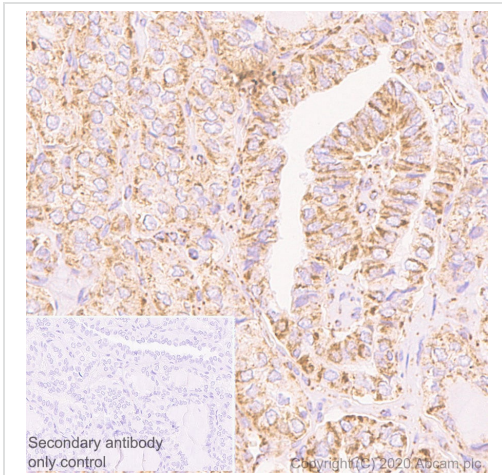
Flow Cytometry - Anti-NDUFB7 antibody  
[EPR15903] (ab188575)

Flow Cytometry analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labelling NDUFB7 with Purified ab188575 at 1:2000 dilution (1 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-NDUFB7 antibody [EPR15903] (ab188575)





Immunocytochemistry analysis of A431 (Human epidermoid carcinoma epithelial cell) cells labeling NDUFB7 with Purified ab188575 at 1:250 dilution (7.6 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid carcinoma tissue sections labeling NDUFB7 with Purified ab188575 at 1:550 dilution (3.47 µg/ml). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used. PBS instead of the primary antibody was used as the negative control.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFB7 antibody [EPR15903] (ab188575)

Why choose a recombinant antibody?

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

Anti-NDUFB7 antibody [EPR15903] (ab188575)

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

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