

## Product datasheet

# Anti-NDUFS3 antibody [EPR12782] - C-terminal ab177471

Recombinant RabMAb

★★★★★ 2 Abreviews 3 References 7 Images

### Overview

<b>Product name</b>	Anti-NDUFS3 antibody [EPR12782] - C-terminal
<b>Description</b>	Rabbit monoclonal [EPR12782] to NDUFS3 - C-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P, Flow Cyt, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human NDUFS3 aa 200 to the C-terminus (Cysteine residue). The exact sequence is proprietary. Database link: <a href="#">O75489</a>
<b>Positive control</b>	HepG2, 293T, HL60 and fetal heart lysates. Human heart and kidney tissue. 293 cells.
<b>General notes</b>	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> .  This product is a <a href="#">recombinant rabbit monoclonal antibody</a> .

### 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: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
<b>Purity</b>	Tissue culture supernatant
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR12782
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab177471** 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
WB	★★★★★	1/1000 - 1/10000. Predicted molecular weight: 30 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt		1/200.
ICC/IF	★★★★☆	1/50 - 1/100.
IP		1/10 - 1/100.

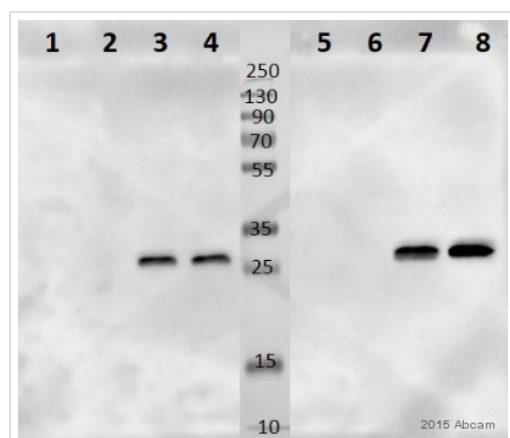
## Target

**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 30 kDa subunit family.

**Cellular localization** Mitochondrion inner membrane.

## Images



Western blot - Anti-NDUFS3 antibody [EPR12782] - C-terminal (ab177471)

Image is courtesy of an anonymous Abreview.

**All lanes** : Anti-NDUFS3 antibody [EPR12782] - C-terminal (ab177471) at 1/1000 dilution

**Lanes 1-2** : Whole cell lysates from NDUFS3 KO cells.

**Lanes 3-4** : Whole cell lysates from NDUFS3 WT cells.

**Lanes 5-6** : Isolated mitochondria from NDUFS3 KO Cells.

**Lanes 7-8** : Isolated mitochondria from NDUFS3 WT Cells.

Lysates/proteins at 50 µg per lane.

### Secondary

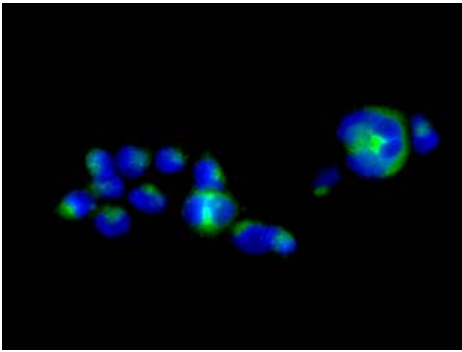
**All lanes** : Goat anti-Rabbit polyclonal HRP conjugate. at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

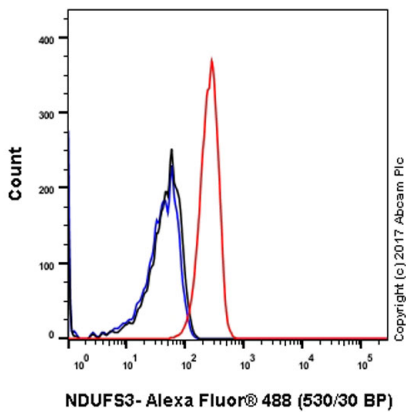
**Predicted band size:** 30 kDa

**Exposure time:** 1 minute



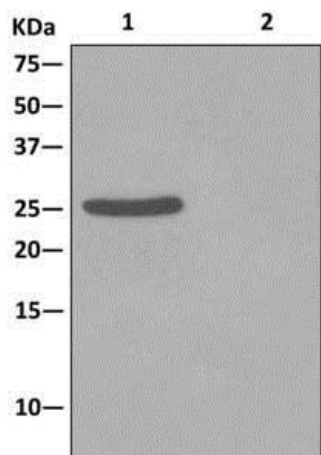
Immunocytochemistry/ Immunofluorescence - Anti-NDUFS3 antibody [EPR12782] - C-terminal (ab177471)

Immunofluorescence analysis of 293 cells labeling NDUFS3 with ab177471 at 1/50 dilution (green). DAPI nuclear staining (blue).



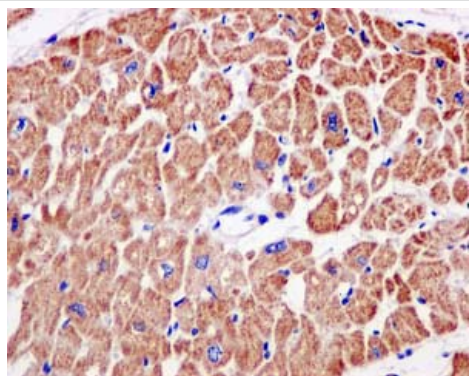
Flow Cytometry - Anti-NDUFS3 antibody [EPR12782] - C-terminal (ab177471)

Flow cytometry analysis of HEK293 (Human embryonic kidney epithelial cell) cells labeling NDUFS3 (red) with purified ab177471 at a 1/200 dilution (10 $\mu$ g/mL). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti rabbit IgG (Alexa Fluor<sup>®</sup>488) (ab150077) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (Black) (ab172730). Blue (unlabeled control) - Cell without incubation with primary antibody and secondary antibody (Blue).



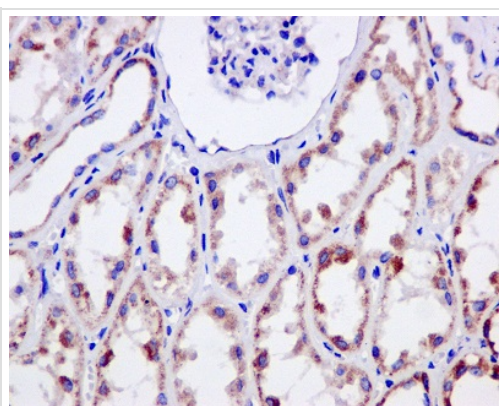
Immunoprecipitation - Anti-NDUFS3 antibody  
[EPR12782] - C-terminal (ab177471)

Western blot analysis on immunoprecipitation pellet from (1) fetal heart lysate or (2) 1XPBS (negative control) using ab177471 at 1/10 dilution, and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.



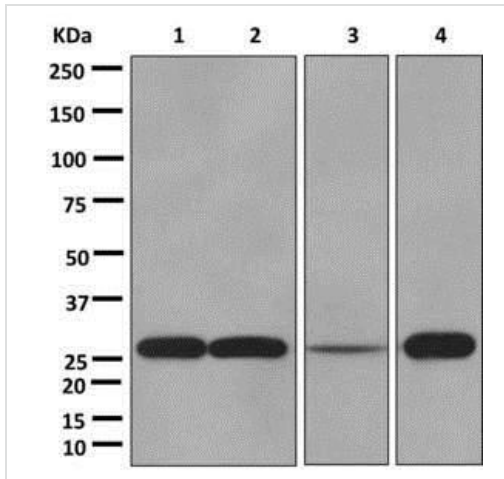
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFS3 antibody  
[EPR12782] - C-terminal (ab177471)

Immunohistochemical analysis of paraffin-embedded Human heart tissue labeling NDUFS3 with ab177471 at 1/50 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFS3 antibody  
[EPR12782] - C-terminal (ab177471)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling NDUFS3 with ab177471 at 1/50 dilution.



Western blot - Anti-NDUFS3 antibody [EPR12782] - C-terminal (ab177471)

**All lanes :** Anti-NDUFS3 antibody [EPR12782] - C-terminal (ab177471) at 1/1000 dilution

**Lane 1 :** HepG2 lysate

**Lane 2 :** 293T lysate

**Lane 3 :** HL60 lysate

**Lane 4 :** Fetal heart lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** Goat-anti-rabbit HRP at 1/2000 dilution

Developed using the ECL technique.

**Predicted band size:** 30 kDa

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

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