


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

敲除验证 重组 RabMAb

★★★★★ [2 Abreviews](#) [7 References](#) [10 图像](#)

概述

产品名称	Anti-NDUFS3抗体[EPR12782] - C-terminal
描述	兔单克隆抗体[EPR12782] to NDUFS3 - C-terminal
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
种属反应性	与反应: Human 预测可用于: Mouse, Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HepG2, 293T, HL60 and fetal heart lysates. Human heart and kidney tissue. 293 cells.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 .

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Tissue culture supernatant
克隆	单克隆
克隆编号	EPR12782

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab177471于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/200.
WB	★★★★★ (1)	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.
ICC/IF	★★★★★ (1)	1/50 - 1/100.
IP		1/10 - 1/100.

靶标

功能

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.

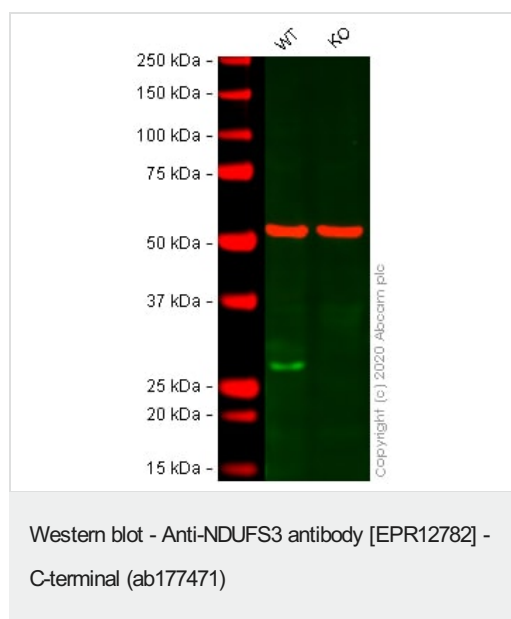
序列相似性

Belongs to the complex I 30 kDa subunit family.

细胞定位

Mitochondrion inner membrane.

图片



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

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : NDUFS3 knockout HEK-293T cell lysate

Lysates/proteins at 20 µg per lane.

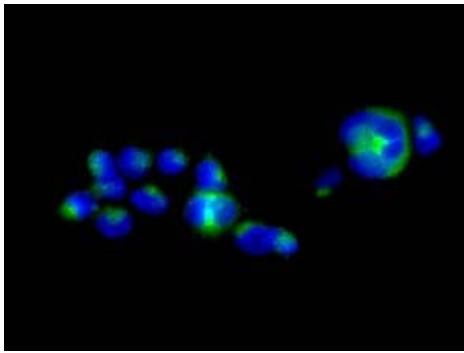
Performed under reducing conditions.

Predicted band size: 30 kDa

Observed band size: 27 kDa

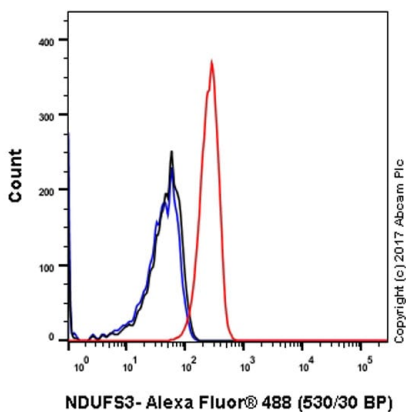
Lanes 1 - 2: Merged signal (red and green). Green - ab177471 observed at 27 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

ab177471 was shown to react with NDUFS3 in HEK-293T wild-type cells in western blot with loss of signal observed in NDUFS3 knockout cell line **ab266419** (NDUFS3 knockout cell lysate **ab257556**). Wild-type and NDUFS3 knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% milk in TBS-T (0.1% Tween[®]) before incubation with ab177471 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



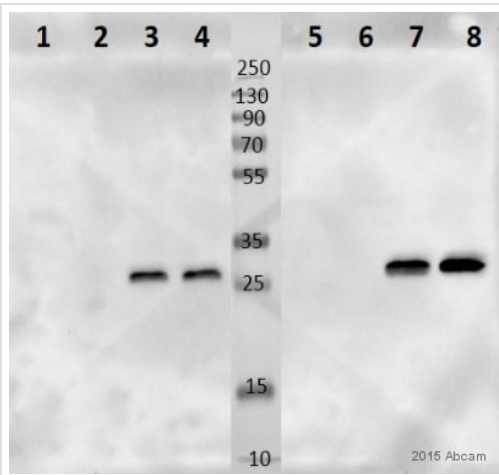
Immunocytochemistry/ Immunofluorescence - Anti-NDUFS3 antibody [EPR12782] - C-terminal (ab177471)

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



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

Intracellular Flow Cytometry analysis of HEK293 (Human embryonic kidney epithelial cell) cells labeling NDUFS3 (red) with purified ab177471 at a 1/200 dilution (10ug/mL). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti rabbit IgG (Alexa Fluor[®]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).



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

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

Lane 1 : Wild-type HEK-293T cell lysate

Lane 2 : NDUFS3 knockout HEK-293T cell lysate

Lane 3 : HepG2 cell lysate

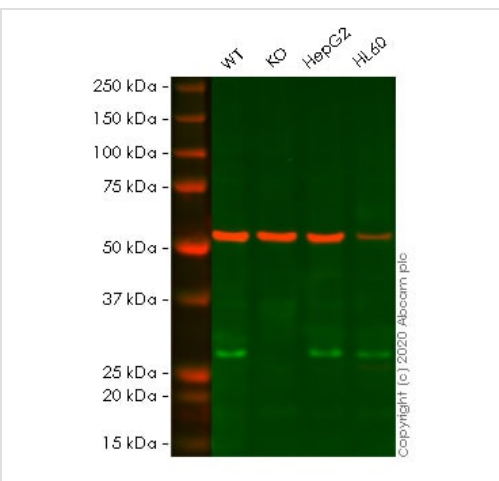
Lane 4 : HL60 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 30 kDa

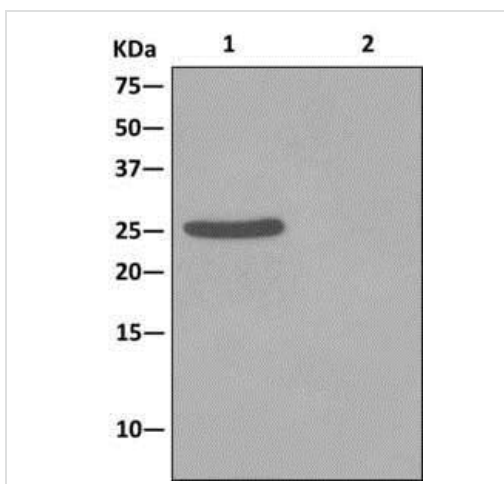
Observed band size: 30 kDa



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

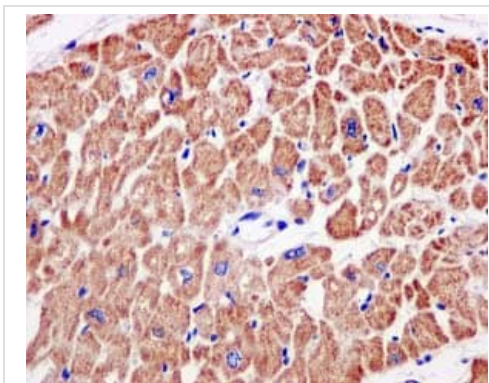
Lanes 1-4: Merged signal (red and green). Green - ab177471 observed at 30 kDa. Red - Anti-alpha Tubulin antibody [DM1A] - Loading Control ([ab7291](#)) observed at 50 kDa.

ab177471 was shown to react with NDUFS3 in wild-type HEK-293T cells in western blot. Loss of signal was observed when knockout cell line **ab266419** (knockout cell lysate **ab257556**) was used. Wild-type HEK-293T and NDUFS3 knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab177471 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) overnight at 4°C at a 1 in 1000 dilution and a 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.



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

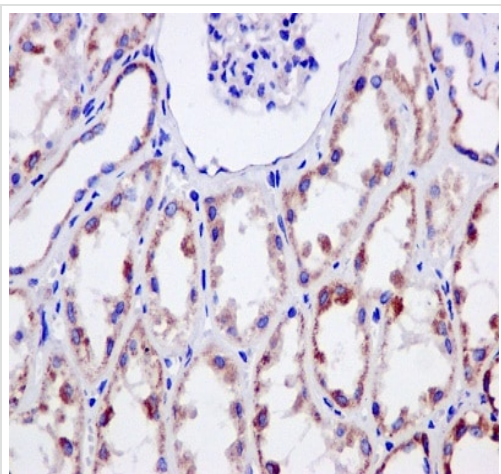
Western blot analysis on immunoprecipitation pellet from (1) human fetal heart lysate or (2) 1XPBS (negative control) using ab177471 at 1/10 dilution, and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.



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.

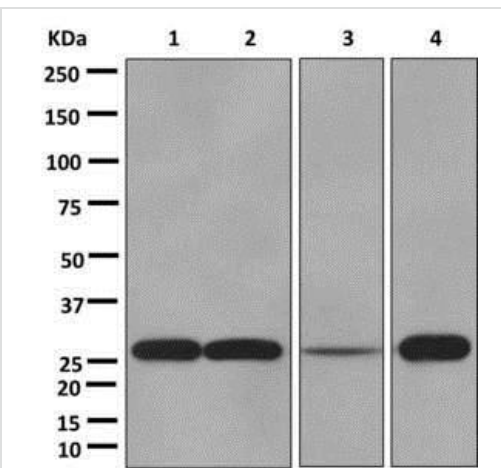
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



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.

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



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 μ g per lane.

Secondary

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

Developed using the ECL technique.

Predicted band size: 30 kDa

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

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