

Anti-NDUFS3 antibody [17D95] ab14711

★★★★★ [1 Abreviews](#) [98 References](#) [4 图像](#)

概述

产品名称	Anti-NDUFS3抗体[17D95]
描述	小鼠单克隆抗体[17D95] to NDUFS3
宿主	Mouse
经测试应用	适用于: WB, Flow Cyt
种属反应性	与反应: Mouse, Rat, Cow, Human
免疫原	Tissue, cells or virus. This information is considered to be commercially sensitive.
阳性对照	Human heart mitochondria. In Flow Cytometry, this antibody gave a positive signal in methanol fixed/Tween permeabilised HepG2 cells.
常规说明	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C.
存储溶液	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
纯度	Immunogen affinity purified
克隆	单克隆
克隆编号	17D95

同种型 IgG2a
轻链类型 kappa

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab14711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
WB	★★★★★ (1)	Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 26 kDa (predicted molecular weight: 30 kDa).
Flow Cyt		Use 1 µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

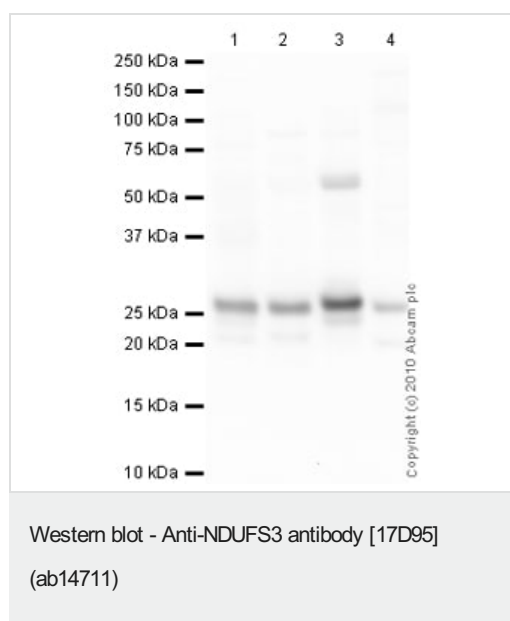
靶标

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 [17D95] (ab14711) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein (**ab29466**)

Lane 2 : Human heart tissue lysate - total protein (**ab29431**)

Lane 3 : Heart (Mouse) Tissue Lysate

Lane 4 : HepG2 (Human hepatocellular liver carcinoma cell line)

Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed

(**ab97040**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

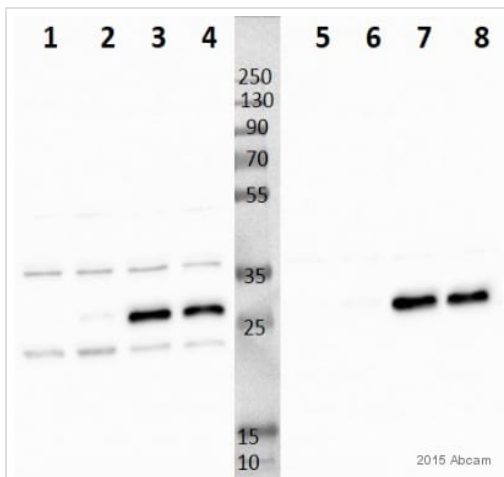
Predicted band size: 30 kDa

Observed band size: 26 kDa

Additional bands at: 57 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute

The band observed at 26 kDa could potentially be a cleaved form of NDUFS3 due to the presence of a 36 amino acid transit peptide.



Western blot - Anti-NDUFS3 antibody [17D95] (ab14711)

Image is courtesy of an anonymous AbReview

All lanes : Anti-NDUFS3 antibody [17D95] (ab14711) 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-mouse polyclonal HRP conjugate at 1/5000 dilution

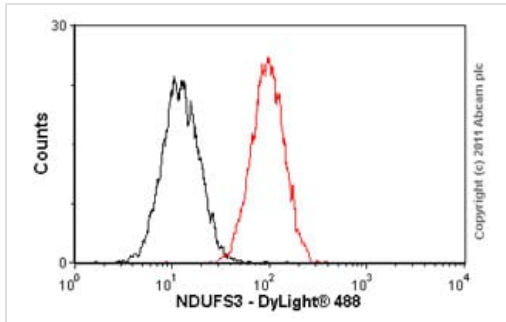
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 30 kDa

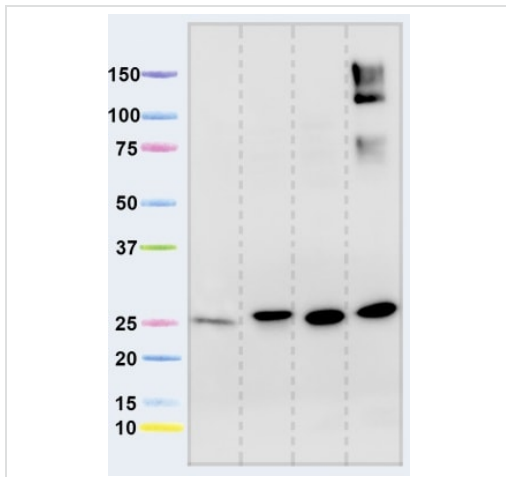
Additional bands at: 22 kDa (possible non-specific binding), 40 kDa (possible non-specific binding)

Exposure time: 1 minute



Flow Cytometry - Anti-NDUFS3 antibody [17D95] (ab14711)

Overlay histogram showing HepG2 cells stained with ab14711 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab14711, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] ([ab91361](#), 1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.



Western blot - Anti-NDUFS3 antibody [17D95] (ab14711)

All lanes : Anti-NDUFS3 antibody [17D95] (ab14711)

Lane 1 : Isolated mitochondria from Human heart at 5 µg

Lane 2 : Isolated mitochondria from Bovine heart at 4 µg

Lane 3 : Isolated mitochondria from Rat heart at 10 µg

Lane 4 : Isolated mitochondria from Mouse heart at 10 µg

Secondary

All lanes : Goat anti-Mouse IgG

Predicted band size: 30 kDa

Observed band size: 26 kDa

Extra bands in the mouse sample (lane 4) are due to the reaction of the IgG-specific goat anti-mouse secondary antibody with residual mouse blood in the heart tissue, as it is very difficult to entirely remove the blood from these small organs.

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