

Anti-NDUFS2 antibody [EPR16266] ab192022

敲除验证
重组
RabMAb

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概述

产品名称	Anti-NDUFS2抗体[EPR16266]
描述	兔单克隆抗体[EPR16266] to NDUFS2
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB, IHC-P, IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HAP1, HeLa, Jurkat, 293T cell lysate. Mouse brain, kidney and spleen lysate. Rat brain and kidney lysate. C6, RAW264.7, PC-12 and NIH/3T3 cell lysate. IHC-P: Human brain tissue. Rat stomach tissue. IP: 293T cell lysate. ICC/IF: Wild-type HAP1 cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR16266

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab192022于以下的经测试应用

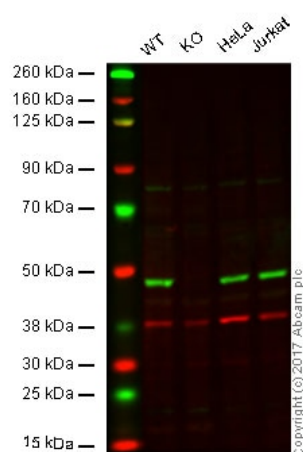
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use a concentration of 0.4 µg/ml.
WB		1/1000 - 1/10000. Detects a band of approximately 49 kDa (predicted molecular weight: 53 kDa).
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/40.

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.
疾病相关	Defects in NDUFS2 are a cause of mitochondrial complex I deficiency (MT-C1D) [MIM:252010]. A disorder of the mitochondrial respiratory chain that causes a wide range of clinical disorders, from lethal neonatal disease to adult-onset neurodegenerative disorders. Phenotypes include macrocephaly with progressive leukodystrophy, non-specific encephalopathy, cardiomyopathy, myopathy, liver disease, Leigh syndrome, Leber hereditary optic neuropathy, and some forms of Parkinson disease.
序列相似性	Belongs to the complex I 49 kDa subunit family.
细胞定位	Mitochondrion inner membrane.

图片



Western blot - Anti-NDUFS2 antibody [EPR16266]
(ab192022)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

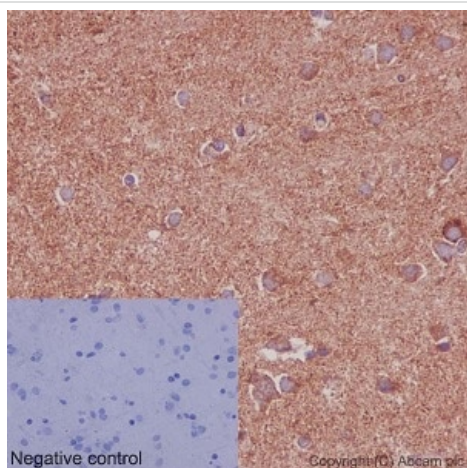
Lane 2: NDUFS2 knockout HAP1 whole cell lysate (20 µg)

Lane 3: HeLa whole cell lysate (20 µg)

Lane 4: Jurkat whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab192022 observed at 48 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

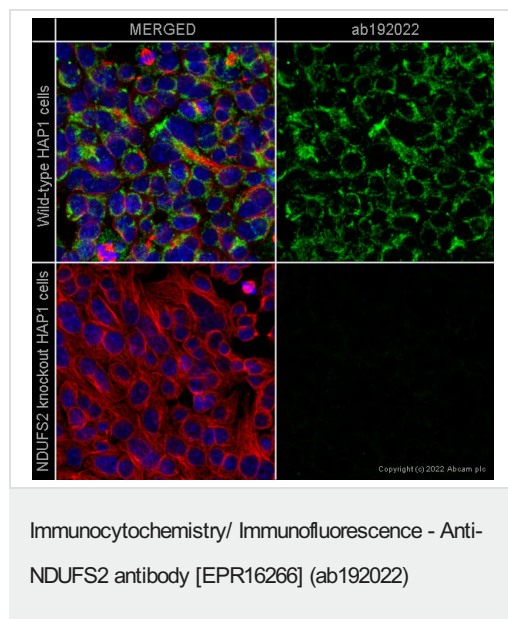
ab192022 was shown to specifically react with NDUFS2 in wild-type HAP1 cells whilst signal was lost in NDUFS2 knockout cells. Wild-type and NDUFS2 knockout samples were subjected to SDS-PAGE. ab192022 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20,000 dilution respectively. Blots were developed 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 1/20,000 dilution for 1 hour at room temperature before imaging.



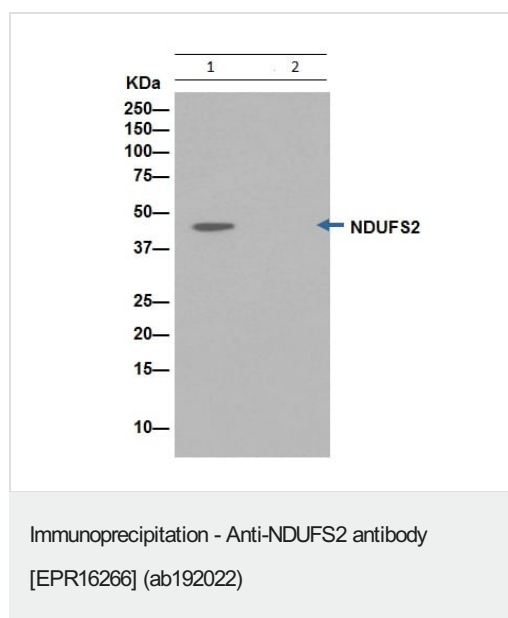
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFS2 antibody [EPR16266] (ab192022)

Immunohistochemical analysis of paraffin-embedded human brain tissue sections labeling NDUFS2 using ab192022 at a 1/500 dilution. A ready to use HRP Polymer for Rabbit IgG was used as the secondary. Hematoxylin counterstain. Negative control uses PBS instead of primary antibody.

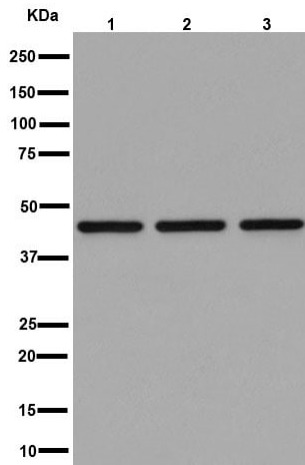
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



ab192022 staining NDUFS2 in wild-type Hap1 cells (top panel) and NDUFS2 knockout Hap1 cells (bottom panel). The cells were fixed with 100% methanol (5 min) then permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with ab192022 at 0.4µg/ml concentration and **ab7291** (Mouse monoclonal to alpha Tubulin) at 1/1000 dilution overnight at 4°C followed by a further incubation at room temperature for 1h with a goat secondary antibody to rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green) and a goat secondary antibody to mouse IgG (Alexa Fluor® 594) (**ab150120**) at 2 µg/ml (shown in red). Nuclear DNA was labelled in blue with DAPI. Image was acquired with a high-content analyser (Operetta CLS, Perkin Elmer) and a maximum intensity projection of confocal sections is shown.



Lane 1: 293T cell lysate was immunoprecipitated using ab192022 at a 1/40 dilution. Secondary used was anti-rabbit IgG (HRP), specific to the non-reduced form of IgG at a 1/1500 dilution.
Lane 2: PBS instead of 293T lysates.



Western blot - Anti-NDUFS2 antibody [EPR16266] (ab192022)

All lanes : Anti-NDUFS2 antibody [EPR16266] (ab192022) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : Jurkat cell lysate

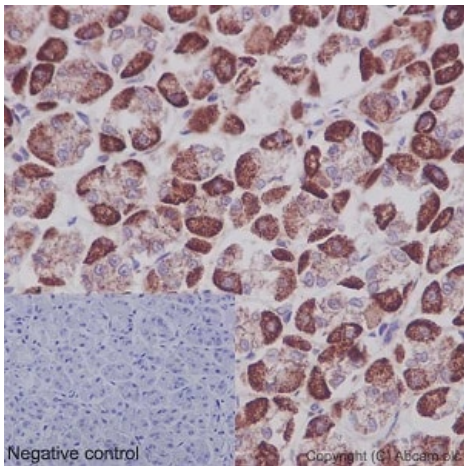
Lane 3 : 293T (Human embryonic kidney epithelial cell) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

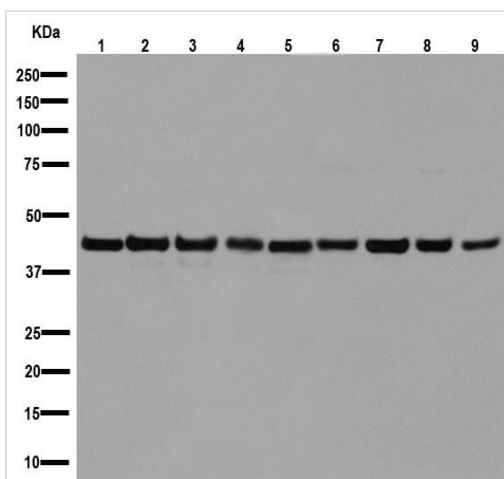
Predicted band size: 53 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFS2 antibody [EPR16266] (ab192022)

Immunohistochemical analysis of paraffin-embedded rat stomach tissue sections labeling NDUF52 using ab192022 at a 1/500 dilution. A ready to use HRP Polymer for Rabbit IgG was used as the secondary. Hematoxylin counterstain. Negative control uses PBS instead of primary antibody.

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



Western blot - Anti-NDUFS2 antibody [EPR16266] (ab192022)

All lanes : Anti-NDUFS2 antibody [EPR16266] (ab192022) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Mouse kidney lysate

Lane 3 : Mouse spleen lysate

Lane 4 : Rat brain lysate

Lane 5 : Rat kidney lysate

Lane 6 : C6 cell lysate

Lane 7 : RAW264.7 cell lysate

Lane 8 : PC-12 cell lysate

Lane 9 : NIH3T3 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 53 kDa

Observed band size: 49 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



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Animal-free production

Anti-NDUFS2 antibody [EPR16266] (ab192022)

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