


Product datasheet

Anti-Ndufs1 antibody [EPR11522(B)] ab157221

Recombinant **RabMAb**

[6 References](#) [10 Images](#)

Overview

Product name	Anti-Ndufs1 antibody [EPR11522(B)]
Description	Rabbit monoclonal [EPR11522(B)] to Ndufs1
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF, IHC-P Unsuitable for: IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Raji, HepG2, MOLT4 and Jurkat cell lysates; Human kidney and liver tissues; HepG2 cells; Permeabilized Jurkat cells.
General notes	<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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR11522(B)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab157221 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

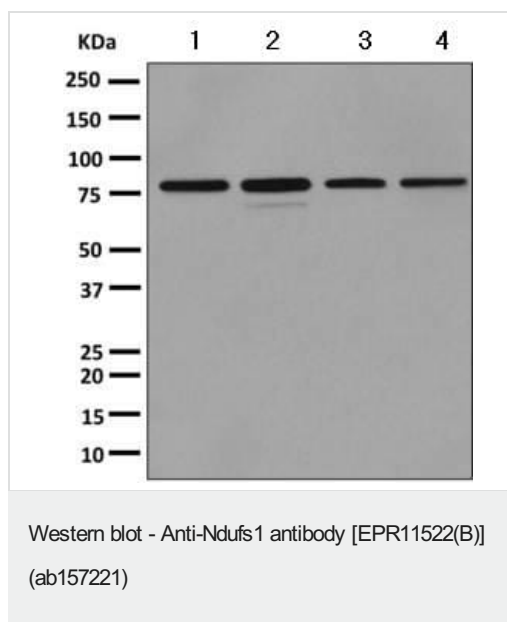
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/10000 - 1/50000. Predicted molecular weight: 79 kDa.
ICC/IF		1/50 - 1/100.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Application notes Is unsuitable for IP.

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 (By similarity). This is the largest subunit of complex I and it is a component of the iron-sulfur (IP) fragment of the enzyme. It may form part of the active site crevice where NADH is oxidized.
Involvement in disease	Defects in NDUFS1 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.
Sequence similarities	Belongs to the complex I 75 kDa subunit family. Contains 1 2Fe-2S ferredoxin-type domain.
Cellular localization	Mitochondrion inner membrane.

Images



All lanes : Anti-Ndufs1 antibody [EPR11522(B)] (ab157221) at 1/10000 dilution

Lane 1 : Raji cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : MOLT4 cell lysate

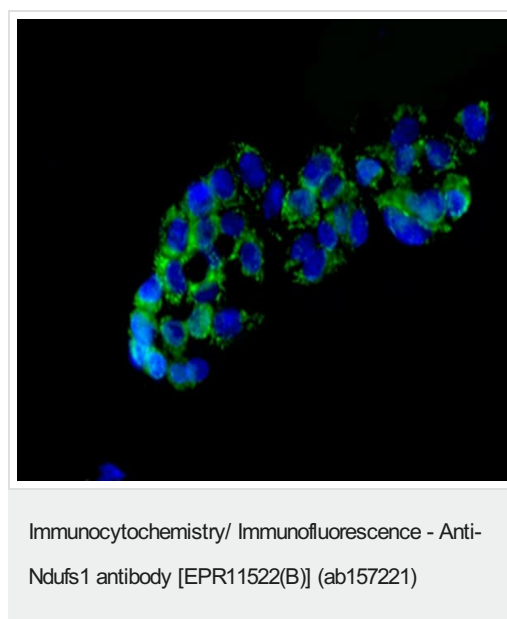
Lane 4 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

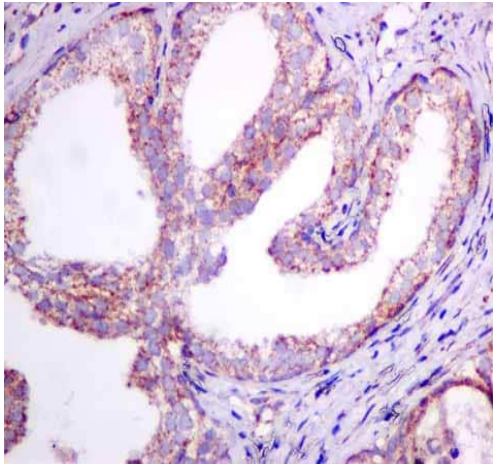
Secondary

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

Predicted band size: 79 kDa



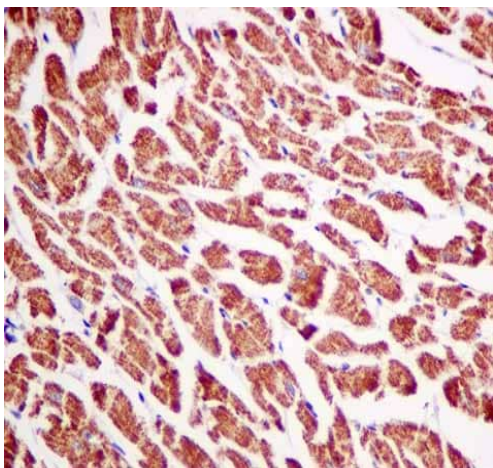
Immunofluorescent analysis of HepG2 cells labeling Ndufs1 with ab157221 at 1/50 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ndufs1 antibody [EPR11522(B)] (ab157221)

ab157221 showing +ve staining in Human normal prostate.

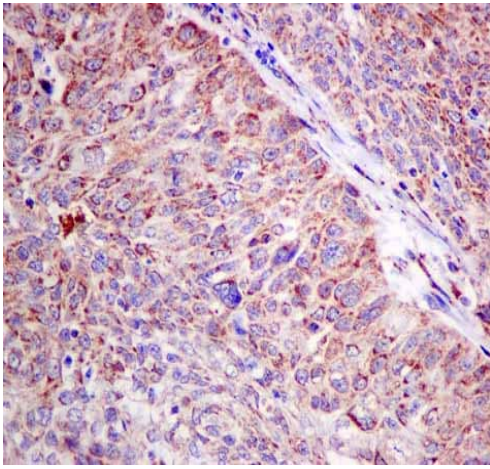
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ndufs1 antibody [EPR11522(B)] (ab157221)

ab157221 showing +ve staining in Human heart.

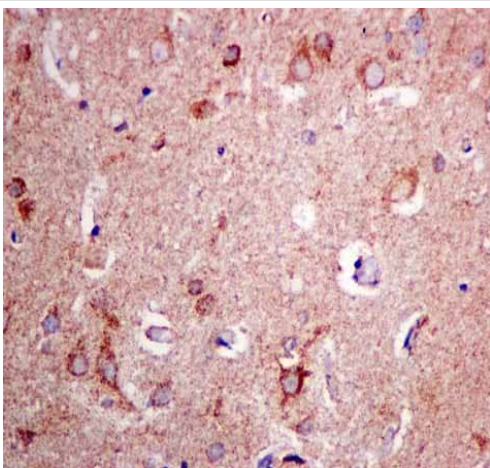
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ndufs1 antibody [EPR11522(B)] (ab157221)

ab157221 showing +ve staining in Human cervical carcinoma.

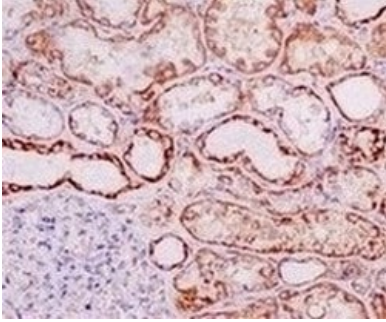
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ndufs1 antibody [EPR11522(B)] (ab157221)

ab157221 showing +ve staining in Human normal brain.

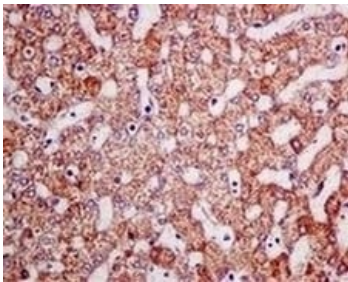
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ndufs1 antibody [EPR11522(B)] (ab157221)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling Ndufs1 with ab157221 at 1/100 dilution.

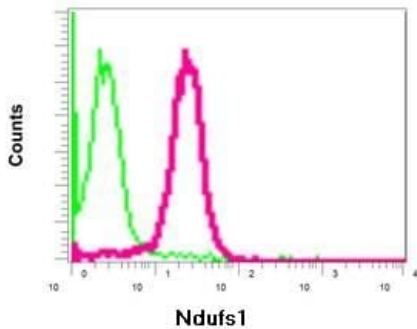
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ndufs1 antibody [EPR11522(B)] (ab157221)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Ndufs1 with ab157221 at 1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Flow Cytometry (Intracellular) - Anti-Ndufs1 antibody [EPR11522(B)] (ab157221)

Intracellular flow cytometric analysis of permeabilized Jurkat cells labeling Ndufs1 with ab157221 at 1/10 dilution (red) or a rabbit IgG (negative) (green).

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-Ndufs1 antibody [EPR11522(B)] (ab157221)

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