

Anti-NDUFS2 antibody ab192764

4 Images

Overview

Product name	Anti-NDUFS2 antibody
Description	Rabbit polyclonal to NDUFS2
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	<p>Recombinant fragment within Human NDUFS2 aa 200-450. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <u>contact</u> our Scientific Support team to discuss your requirements.</p> <p>Database link: <u>O75306</u></p>
Positive control	Human kidney tissue; HeLa cells; 293T, A431, Jurkat, Raji cell lysate, Mouse brain tissue lysate
General notes	<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>

 **Run BLAST with**

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Properties

Form	Liquid
Storage instructions	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.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 20% Glycerol (glycerin, glycerine), 79% Tris glycine</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab192764 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
ICC/IF		1/100 - 1/1000.
WB		1/1000 - 1/10000. Predicted molecular weight: 53 kDa.
IHC-P		Use a concentration of 7.5 µg/ml. Suggested antigen retrieval using heat mediated 10 mM Citrate buffer (pH 6.0) or Tris-EDTA buffer (pH 8.0)

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.

Involvement in disease

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.

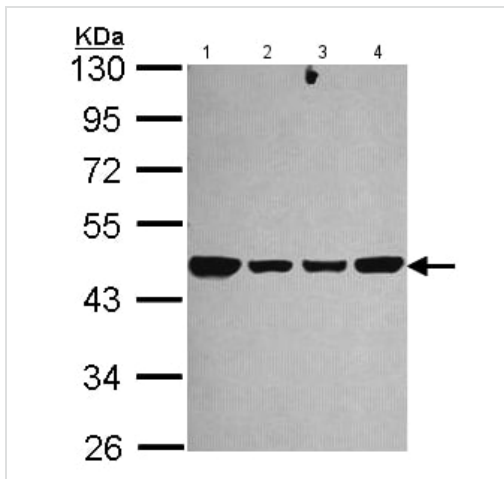
Sequence similarities

Belongs to the complex I 49 kDa subunit family.

Cellular localization

Mitochondrion inner membrane.

Images



Western blot - Anti-NDUFS2 antibody (ab192764)

All lanes : Anti-NDUFS2 antibody (ab192764) at 1/1000 dilution

Lane 1 : 293T cell lysate

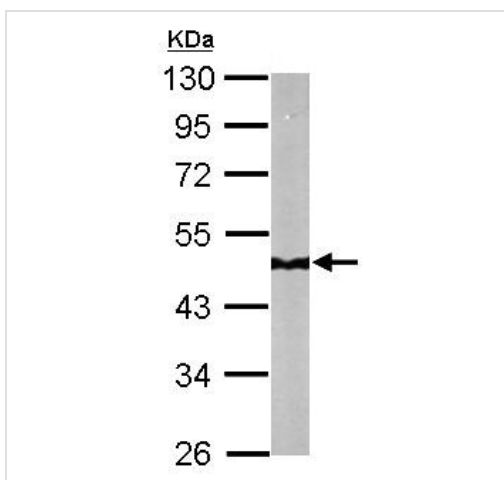
Lane 2 : A431 cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : Raji cell lysate

Lysates/proteins at 30 µg per lane.

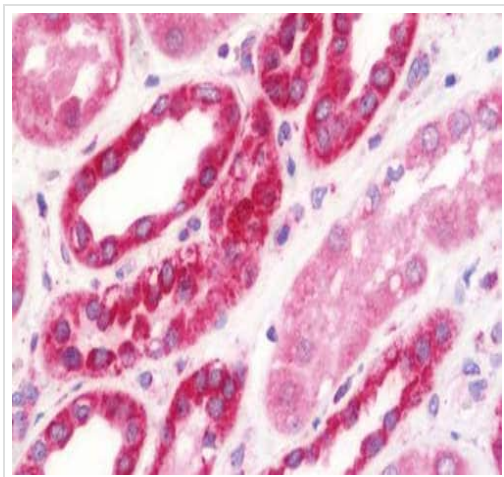
Predicted band size: 53 kDa



Western blot - Anti-NDUFS2 antibody (ab192764)

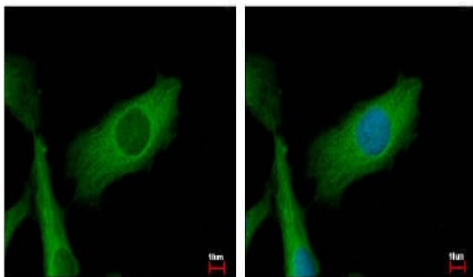
Anti-NDUFS2 antibody (ab192764) at 1/10000 dilution + Mouse brain tissue lysate at 50 µg

Predicted band size: 53 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NDUFS2 antibody (ab192764)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human kidney tissue labeling NDUF52 with ab192764 at 7.5µg/mL.



Immunocytochemistry/ Immunofluorescence - Anti-NDUF52 antibody (ab192764)

Immunofluorescent analysis of HeLa cells labeling mitochondrial NDUF52 with ab192764 at a 1/500 dilution. HeLa cells were fixed in 2% paraformaldehyde/culture medium at 37 for 30 min. The panel on the right shows the nuclear stain.

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

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