

Product datasheet

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 200-430. The exact sequence is proprietary. Sequence:</p> <p>F FWLFEEREKM FEFYERVSGA RMHAAYIRPG GVHQDLPLGL MDDIYQFSKN FSLRLDELEE LLTNNRWRN RTIDIGVVTA EEALNYGFSG VMLRGSGIQW DLRKTQPYDV YDQVEFDVPV GSRGDCYDRY LCRVEEMRQS LRIAQCLNK MPPGEIKVDD AKVSPPKRAE MKTSMESLIH HFKLYTEGYQ VPPGATYTAI EAPKGEFGVY LVSDGSSRPY RCKIKAPGFA</p> <p>Database link: O75306</p> <p style="text-align: right;"> Run BLAST with  Run BLAST with</p>
Positive control	Human kidney tissue; HeLa cells; 293T, A431, Jurkat, Raji cell lysate, Mouse brain tissue lysate

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</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 20% Glycerol, 79% Tris glycine</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab192764** in the following tested applications.

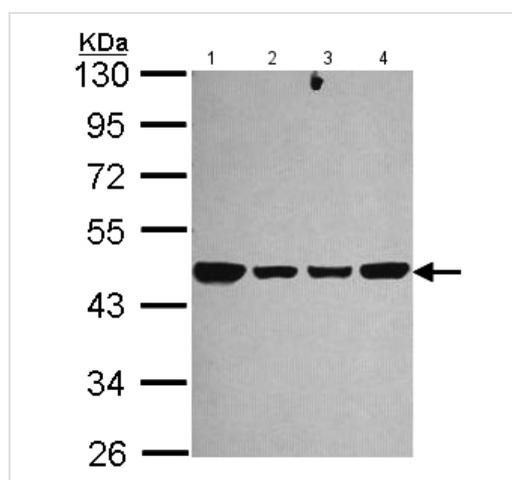
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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 <i>NDUFS2</i> 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

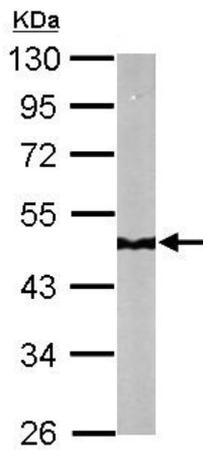
Lane 2 : A431 cell lysate

Lane 3 : Jurkat cell lysate

Lane 4 : Raji cell lysate

Lysates/proteins at 30 µg per lane.

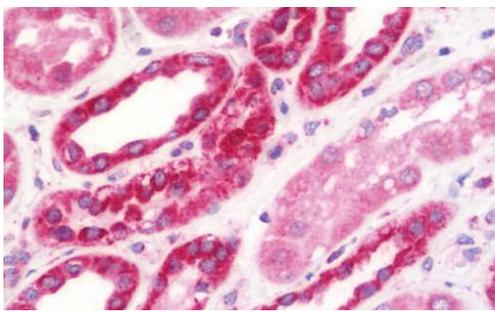
Predicted band size: 53 kDa



Western blot - Anti-NDUFS2 antibody (ab192764)

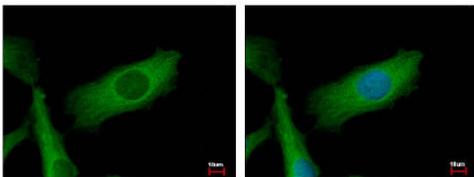
Anti-NDUFS2 antibody (ab192764) at 1/10000 dilution + Mouse brain tissue lysate at 50 μ g

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 NDUFS2 with ab192764 at 7.5 μ g/mL.



Immunocytochemistry/ Immunofluorescence - Anti-NDUFS2 antibody (ab192764)

Immunofluorescent analysis of HeLa cells labeling mitochondrial NDUFS2 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.

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