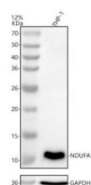


NDUFA1 Antibody / NADH dehydrogenase ubiquinone 1 alpha subcomplex subunit 1 (FY12782)

Catalog No.	Formulation	Size
FY12782	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

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Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	O15239
Localization	Cytoplasm (Mitochondria)
Applications	Western Blot : 0.25-0.5ug/ml Immunohistochemistry : 2-5ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This NDUFA1 antibody is available for research use only.



Western blot analysis of NDUFA1 using anti-NDUFA1 antibody. Lane 1: human THP-1 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-NDUFA1 antibody at 0.5 ug/ml overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal was developed using enhanced chemiluminescent. A predominant band is detected at ~10-11 kDa, consistent with the known slower SDS-PAGE migration of this small, hydrophobic Complex I subunit relative to its ~7-8 kDa calculated mass.

Defects in Complex I assembly caused by NDUFA1 dysfunction contribute to reduced ATP production and excessive reactive oxygen species generation, triggering oxidative stress and apoptosis. The NDUFA1 antibody provides a key tool for investigating mitochondrial respiratory disorders, metabolic adaptation, and redox regulation. NSJ Bioreagents supplies this antibody validated for its applications, ensuring precise and reproducible detection of NDUFA1 in mitochondrial research.

Application Notes

Optimal dilution of the NDUFA1 antibody should be determined by the researcher.

Immunogen

E.coli-derived human NDUFA1 recombinant protein (Position: M1-D70) was used as the immunogen for the NDUFA1 antibody.

Storage

After reconstitution, the NDUFA1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.