

NDUFB11 (FL-153): sc-292404

BACKGROUND

Complex I (also known as NADH dehydrogenase) of the electron transport chain (respiratory chain) is an enzymatic complex that catalyzes the transfer of electrons from NADH to ubiquinone. Free energy from the reaction is conserved in the transfer of protons into the intermembrane space to create an electrochemical proton gradient, a driving force for ATP synthesis. Complex I is a complicated, multi-protein, L-shaped complex composed of at least 45 different subunits and located in the mitochondrial inner membrane. NDUFB11 (NADH dehydrogenase (ubiquinone) 1 β subcomplex subunit 11), also known as ESSS, Np15, Np17.3 (neuronal protein 17.3) or p17.3, is a hydrophobic transmembrane protein belonging to the Complex I NDUFB11 subunit family. Ubiquitously expressed, NDUFB11 localizes to the inner membrane of the mitochondrion and functions as an accessory subunit of Complex I. The cAMP-dependent phosphorylation of NDUFB11 is important for the regulation of

CHROMOSOMAL LOCATION

Genetic locus: NDUFB11 (human) mapping to Xp11.23; Ndufb11 (mouse) mapping to X A1.3.

SOURCE

NDUFB11 (FL-153) is a rabbit polyclonal antibody raised against amino acids 1-153 representing full length NDUFB11 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

NDUFB11 (FL-153) is recommended for detection of NDUFB11 of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

NDUFB11 (FL-153) is also recommended for detection of NDUFB11 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for NDUFB11 siRNA (h): sc-90885, NDUFB11 siRNA (m): sc-149878, NDUFB11 shRNA Plasmid (h): sc-90885-SH, NDUFB11 shRNA Plasmid (m): sc-149878-SH, NDUFB11 shRNA (h) Lentiviral Particles: sc-90885-V and NDUFB11 shRNA (m) Lentiviral Particles: sc-149878-V.

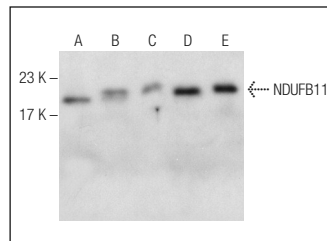
Molecular Weight of phosphorylated NDUFB11: 18 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, K-562 whole cell lysate: sc-2203 or HeLa whole cell lysate: sc-2200.

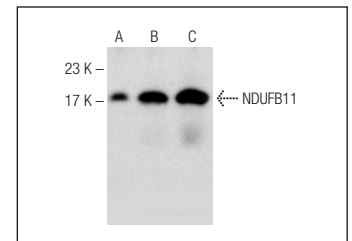
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



NDUFB11 (FL-153): sc-292404. Western blot analysis of NDUFB11 expression in Hep G2 (A), HeLa (B), Jurkat (C), K-562 (D) and Ramos (E) whole cell lysates.



NDUFB11 (FL-153): sc-292404. Western blot analysis of NDUFB11 expression in mouse skeletal muscle (A), mouse kidney (B) and rat heart (C) tissue extracts.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


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Try **NDUFB11 (E-6): sc-393110** or **NDUFB11 (F-3): sc-393074**, our highly recommended monoclonal alternatives to NDUFB11 (FL-153).