

NDUFB1 (C-15): sc-248064

BACKGROUND

NDUFB1 (NADH dehydrogenase [ubiquinone] 1 β subcomplex subunit 1), also known as CI-MNLL (complex I-MNLL), CI-SGDH or NADH-ubiquinone oxidoreductase MNLL subunit, is a 58 amino acid single-pass membrane protein that localizes to the matrix side of the mitochondrial membrane. A member of the complex I NDUFB1 subunit family, NDUFB1 is encoded by a gene that maps to human chromosome 14q32.12. Chromosome 14 houses over 700 genes and comprises nearly 3.5% of the human genome. Chromosome 14 encodes the presenilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease (AD). The SERPINA1 gene is also located on chromosome 14 and, when defective, leads to the genetic disorder α 1-antitrypsin deficiency, which is characterized by severe lung complications and liver dysfunction.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NDUFB1 (human) mapping to 14q32.12.

SOURCE

NDUFB1 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of NDUFB1 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.

Blocking peptide available for competition studies, sc-248064 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NDUFB1 (C-15) is recommended for detection of NDUFB1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other NDUFB family members.

Suitable for use as control antibody for NDUFB1 siRNA (h): sc-92336, NDUFB1 shRNA Plasmid (h): sc-92336-SH and NDUFB1 shRNA (h) Lentiviral Particles: sc-92336-V.

Molecular Weight of NDUFB1 isoforms: 7/12 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

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

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.