

NDUFB5 (H-22): sc-133807

BACKGROUND

Complex 1 (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 1 is a complicated, multi-protein, L-shaped complex composed of at least 45 different subunits and located in the mitochondrial inner membrane. NDUFB5 (NADH dehydrogenase (ubiquinone) 1 β subcomplex, 5), also known as SGDH or CI-SGDH, is a single-pass membrane protein that localizes to the mitochondrial inner membrane and functions as an accessory subunit of complex 1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NDUFB5 (human) mapping to 3q26.33.

SOURCE

NDUFB5 (H-22) is an affinity purified rabbit polyclonal antibody raised against synthetic NDUFB5 peptide of human origin.

PRODUCT

Each vial contains 50 μ g IgG in 500 μ l PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

NDUFB5 (H-22) is recommended for detection of NDUFB5 of human 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NDUFB5 siRNA (h): sc-78552, NDUFB5 shRNA Plasmid (h): sc-78552-SH and NDUFB5 shRNA (h) Lenti-viral Particles: sc-78552-V.

Molecular Weight of NDUFB5: 22 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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).

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.



Try **NDUFB5 (F-2): sc-514245**, our highly recommended monoclonal alternative to NDUFB5 (H-22).