

NDUFB6 (C-14): sc-165093

BACKGROUND

NDUFB6 (NADH dehydrogenase ubiquinone 1 β subcomplex subunit 6), also known as CI-B17 (complex I-B17) or NADH-ubiquinone oxidoreductase B17 subunit, is a 128 amino acid single-pass membrane protein that localizes to the matrix side of the mitochondrial inner membrane. A member of the complex I NDUFB6 subunit family, NDUFB6 is encoded by a gene that maps to human chromosome 9p21.1 and mouse chromosome 4 A5. Human chromosome 9 houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

CHROMOSOMAL LOCATION

Genetic locus: NDUFB6 (human) mapping to 9p21.1; Ndufb6 (mouse) mapping to 4 A5.

SOURCE

NDUFB6 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of NDUFB6 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-165093 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

NDUFB6 (C-14) is recommended for detection of NDUFB6 of mouse, rat and 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)], 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.

NDUFB6 (C-14) is also recommended for detection of NDUFB6 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for NDUFB6 siRNA (h): sc-92468, NDUFB6 siRNA (m): sc-149883, NDUFB6 shRNA Plasmid (h): sc-92468-SH, NDUFB6 shRNA Plasmid (m): sc-149883-SH, NDUFB6 shRNA (h) Lentiviral Particles: sc-92468-V and NDUFB6 shRNA (m) Lentiviral Particles: sc-149883-V.

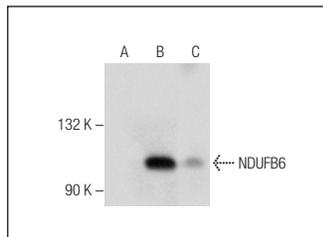
Molecular Weight of NDUFB6: 15 kDa.

Positive Controls: NDUFB6 (h): 293T Lysate: sc-114395 or human kidney extract: sc-363764.

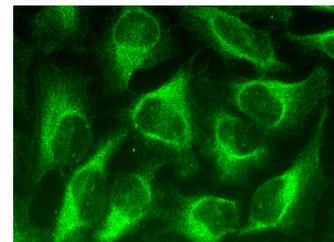
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



NDUFB6 (C-14): sc-165093. Western blot analysis of NDUFB6 expression in non-transfected: sc-117752 (A) and human NDUFB6 transfected: sc-114395 (B) 293T whole cell lysates and human kidney tissue extract (C).



NDUFB6 (C-14): sc-165093. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

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.

MONOS
Satisfaction
Guaranteed

Try **NDUFB6 (B-2): sc-515596**, our highly recommended monoclonal alternative to NDUFB6 (C-14).