

NDUFA8 (M-19): sc-107271

BACKGROUND

NDUFA8 (NDUFA8 NADH dehydrogenase (ubiquinone) 1 α subcomplex, 8), also known as complex I-PGIV (CI-PGIV) or PGIV, is a 172 amino acid mitochondrial protein belonging to the complex I NDUFA8 subunit family. Existing as a subunit of the multi-protein membrane respiratory chain NADH dehydrogenase complex (complex I), NDUFA8 functions as an accessory protein that facilitates the transfer of electrons from NADH to the respiratory chain. NDUFA8 is most highly expressed in heart and skeletal muscle and contains two CHCH domains. The gene encoding NDUFA8 maps to human chromosome 9, which 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: *Ndufa8* (mouse) mapping to 2 B.

RESEARCH USE

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

SOURCE

NDUFA8 (M-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NDUFA8 of mouse 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-107271 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NDUFA8 (M-19) is recommended for detection of NDUFA8 of mouse and rat 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 NDUFA family members.

NDUFA8 (M-19) is also recommended for detection of NDUFA8 in additional species, including canine.

Suitable for use as control antibody for NDUFA8 siRNA (m): sc-149875, NDUFA8 shRNA Plasmid (m): sc-149875-SH and NDUFA8 shRNA (m) Lentiviral Particles: sc-149875-V.

Molecular Weight of NDUFA8: 20 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.

PROTOCOLS

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