

NDUFA12 (W-16): sc-248061

BACKGROUND

NDUFA12 (NADH dehydrogenase [ubiquinone] 1 α subcomplex subunit 12), also known as DAP13 (13 kDa differentiation-associated protein) or NADH-ubiquinone oxidoreductase subunit B17.2, or CI-B17.2 (complex I-B17.2), is a 145 amino acid peripheral membrane protein that localizes to the matrix side of the mitochondrial inner membrane. A member of the complex I NDUFA12 subunit family, NDUFA12 is a subunit of a respiratory chain complex. The gene encoding NDUFA12 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NDUFA12 (human) mapping to 12q22; Ndufa12 (mouse) mapping to 10 C2.

SOURCE

NDUFA12 (W-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of NDUFA12 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-248061 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NDUFA12 (W-16) is recommended for detection of NDUFA12 of mouse, rat and 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 NDUFA family members.

NDUFA12 (W-16) is also recommended for detection of NDUFA12 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for NDUFA12 siRNA (h): sc-95899, NDUFA12 siRNA (m): sc-149869, NDUFA12 shRNA Plasmid (h): sc-95899-SH, NDUFA12 shRNA Plasmid (m): sc-149869-SH, NDUFA12 shRNA (h) Lentiviral Particles: sc-95899-V and NDUFA12 shRNA (m) Lentiviral Particles: sc-149869-V.

Molecular Weight of NDUFA12: 17 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.