

ECHDC2 (N-17): sc-240337

BACKGROUND

ECHDC2 (Enoyl-CoA hydratase domain-containing protein 2) is a 292 amino acid mitochondrial protein that exists as 2 isoforms which are produced by alternative splicing events. The gene encoding ECHDC2 maps to chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 encodes a large number of disease-associated proteins, including Lamin A which, when expressed abnormally, can build up in the nucleus and cause nuclear blebs, a characteristic of the rare aging disease Hutchinson-Gilford progeria. Additionally, genes that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinsons disease, Gaucher disease, schizophrenia and Usher syndrome are all located on chromosome 1. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ECHDC2 (human) mapping to 1p32.3; Echdc2 (mouse) mapping to 4 C7.

SOURCE

ECHDC2 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ECHDC2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-240337 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ECHDC2 (N-17) is recommended for detection of ECHDC2 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 ECHDC1 or ECHDC3.

ECHDC2 (N-17) is also recommended for detection of ECHDC2 in additional species, including equine and bovine.

Suitable for use as control antibody for ECHDC2 siRNA (h): sc-78898, ECHDC2 siRNA (m): sc-143284, ECHDC2 shRNA Plasmid (h): sc-78898-SH, ECHDC2 shRNA Plasmid (m): sc-143284-SH, ECHDC2 shRNA (h) Lentiviral Particles: sc-78898-V and ECHDC2 shRNA (m) Lentiviral Particles: sc-143284-V.

Molecular Weight of ECHDC2: 31 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.