SANTA CRUZ BIOTECHNOLOGY, INC.

DCST2 (N-14): sc-242556

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma. The DCST2 gene product has been provisionally designated DCST2 pending further characterization.

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: DCST2 (human) mapping to 1q21.3; Dcst2 (mouse) mapping to 3 F1.

SOURCE

DCST2 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of DCST2 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-242556 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DCST2 (N-14) is recommended for detection of DCST2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 DCST1.

DCST2 (N-14) is also recommended for detection of DCST2 in additional species, including equine, canine, bovine and porcine.

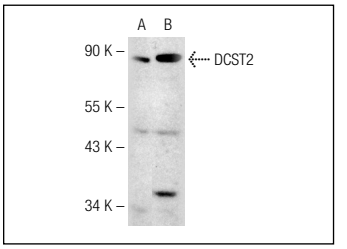
Suitable for use as control antibody for DCST2 siRNA (h): sc-88200, DCST2 siRNA (m): sc-142906, DCST2 shRNA Plasmid (h): sc-88200-SH, DCST2 shRNA Plasmid (m): sc-142906-SH, DCST2 shRNA (h) Lentiviral Particles: sc-88200-V and DCST2 shRNA (m) Lentiviral Particles: sc-142906-V.

Molecular Weight of DCST2 isoform 1: 86 kDa.

Molecular Weight of DCST2 isoform 2: 72 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or A-431 whole cell lysate: sc-2201.

DATA



DCST2 (N-14): sc-242556. Western blot analysis of DCST2 expression in Hep G2 (**A**) and A-431 (**B**) whole cell lysates.

RESEARCH USE

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