SANTA CRUZ BIOTECHNOLOGY, INC.

DHRS12 (Q-16): sc-84078

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

DHRS12 (dehydrogenase/reductase (SDR family) member 12), also known as SDR40C1, is a 317 amino acid protein that exists as multiple alternatively spliced isoforms and functions as a putative oxidoreductase. The gene encoding DHRS12 maps to human chromosome 13, which houses over 400 genes, such as BRCA2 and RB1, and comprises nearly 4% of the human genome. As with most chromosomes, polysomy of part or all of chromosome 13 is deleterious to development and decreases the odds of survival. Trisomy 13, also known as Patau syndrome, is deadly and the few who survive past one year suffer from permanent neurologic defects, difficulty eating and vulnerability to serious respiratory infections.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DHRS12 (human) mapping to 13q14.3.

SOURCE

DHRS12 (Q-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of DHRS12 of human origin.

STORAGE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84078 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DHRS12 (Q-16) is recommended for detection of DHRS12 of 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).

DHRS12 (Q-16) is also recommended for detection of DHRS12 in additional species, including bovine.

Suitable for use as control antibody for DHRS12 siRNA (h): sc-105294, DHRS12 shRNA Plasmid (h): sc-105294-SH and DHRS12 shRNA (h) Lentiviral Particles: sc-105294-V.

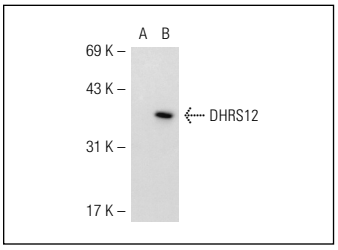
Molecular Weight of DHRS12: 35 kDa.

Positive Controls: Y79 cell lysate: sc-2240, SW-13 cell lysate: sc-24778 or DHRS12 (h): 293T Lysate: sc-158442.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



DHRS12 (Q-16): sc-84078. Western blot analysis of DHRS12 expression in non-transfected: sc-117752 (**A**) and human DHRS12 transfected: sc-158442 (**B**) 293T whole cell lysates.

RESEARCH USE

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