SANTA CRUZ BIOTECHNOLOGY, INC.

DHRS7 (S-14): sc-104883

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

DHRS7 (dehydrogenase/reductase (SDR family) member 7), also known as SDR34C1, CGI-86 or retSDR4, is a 339 amino acid member of the SDR family. Like other members of the SDR family, DHRS7 contains a cofactor-binding Rossman-fold domain and is thought to catalyze the oxidation and reduction of a variety of substrates such as steroids and retinoids. DHRS7 exists as two alternatively spliced isoforms that are encoded by a gene located on human chromosome 14, which houses over 700 genes and comprises nearly 3.5% of the human genome. Chromosome 14 encodes the presinilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease (AD). The SERPINA1 gene is also located on chromosome 14 and, when defective, leads to the genetic disorder α1-antitrypsin deficiency, which is characterized by severe lung complications and liver dysfunction.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: DHRS7 (human) mapping to 14q23.1; Dhrs7 (mouse) mapping to 12 C3.

STORAGE

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

SOURCE

DHRS7 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DHRS7 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-104883 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DHRS7 (S-14) is recommended for detection of DHRS7 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).

Suitable for use as control antibody for DHRS7 siRNA (h): sc-92233, DHRS7 siRNA (m): sc-143033, DHRS7 shRNA Plasmid (h): sc-92233-SH, DHRS7 shRNA Plasmid (m): sc-143033-SH, DHRS7 shRNA (h) Lentiviral Particles: sc-92233-V and DHRS7 shRNA (m) Lentiviral Particles: sc-143033-V.

Molecular Weight of DHRS7: 38 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.

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.