SANTA CRUZ BIOTECHNOLOGY, INC.

DNASE1L2 (A-14): sc-68312

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

DNASE1L2 (deoxyribonuclease I-like 2), also known as DHP1 or DNAS1L2, is a 299 amino acid secreted protein that is expressed in brain tissue and shares sequence similarity with DNase I, suggesting a possibly role in DNA hydrolysis. The gene encoding DNASE1L2 maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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7. Fischer, H., Eckhart, L., Mildner, M., Jaeger, K., Buchberger, M., Ghannadan, M. and Tschachler, E. 2007. DNASE1L2 degrades nuclear DNA during corneocyte formation. J. Invest. Dermatol. 127: 24-30.

CHROMOSOMAL LOCATION

Genetic locus: DNASE1L2 (human) mapping to 16p13.3.

SOURCE

DNASE1L2 (A-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DNASE1L2 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-68312 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DNASE1L2 (A-14) is recommended for detection of DNASE1L2 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).

Suitable for use as control antibody for DNASE1L2 siRNA (h): sc-77320, DNASE1L2 shRNA Plasmid (h): sc-77320-SH and DNASE1L2 shRNA (h) Lentiviral Particles: sc-77320-V.

Molecular Weight (predicted) of DNASE1L2: 33 kDa.

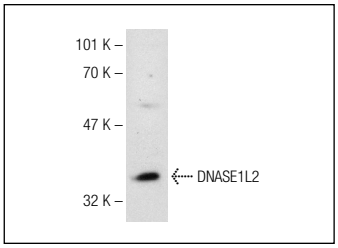
Molecular Weight (observed) of DNASE1L2: 37 kDa.

Positive Controls: IMR-32 nuclear extract: sc-2148.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



DNASE1L2 (A-14): sc-68312. Western blot analysis of DNASE1L2 expression in IMR-32 nuclear extract.

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.