SANTA CRUZ BIOTECHNOLOGY, INC.

TATDN1 (G-19): sc-98163

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TATDN1 (tatD DNase domain containing 1), also known as CDA11, is a 297 amino acid nuclear protein that belongs to the tatD DNase family. Existing as two isoforms due to alternative splicing events, TATDN1 is encoded by a gene that maps to human chromosome 8. Consisting of nearly 146 million base pairs, chromosome 8 encodes over 800 genes and is associated with a variety of diseases and malignancies. Schizophrenia, bipolar disorder, Trisomy 8, Pfeiffer syndrome, congenital hypothyroidism, Waardenburg syndrome and some leukemias and lymphomas are thought to occur as a result of defects in specific genes that map to chromosome 8.

REFERENCES

1. Dib, A., et al. 1995. Characterization of the region of the short arm of chromosome 8 amplified in breast carcinoma. Oncogene 10: 995-1001.
2. Still, I.H., et al. 1999. Cloning of TACC1, an embryonically expressed, potentially transforming coiled coil containing gene, from the 8p11 breast cancer amplicon. Oncogene 18: 4032-4038.

CHROMOSOMAL LOCATION

Genetic locus: TATDN1 (human) mapping to 8q24.13; Tatdn1 (mouse) mapping to 15 D1.

SOURCE

TATDN1 (G-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TATDN1 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-98163 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TATDN1 (G-19) is recommended for detection of TATDN1 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).

TATDN1 (G-19) is also recommended for detection of TATDN1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for TATDN1 siRNA (h): sc-77711, TATDN1 siRNA (m): sc-154084, TATDN1 shRNA Plasmid (h): sc-77711-SH, TATDN1 shRNA Plasmid (m): sc-154084-SH, TATDN1 shRNA (h) Lentiviral Particles: sc-77711-V and TATDN1 shRNA (m) Lentiviral Particles: sc-154084-V.

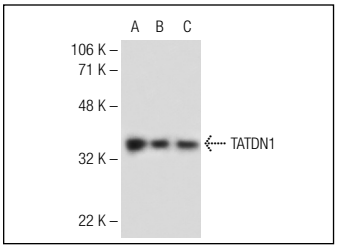
Molecular Weight of TATDN1: 34 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Ramos nuclear extract: sc-2153 or SW480 nuclear extract: sc-2155.

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



TATDN1 (G-19): sc-98163. Western blot analysis of TATDN1 expression in Ramos (**A**), SW480 (**B**) and HeLa (**C**) nuclear extracts.

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.