

# TATDN1 (B-2): sc-376053

## 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.
3. Wildenauer, D.B. and Schwab, S.G. 1999. Chromosomes 8 and 10 workshop. *Am. J. Med. Genet.* 88: 239-243.
4. Kashino, G., et al. 2001. Preferential expression of an intact WRN gene in Werner syndrome cell lines in which a normal chromosome 8 has been introduced. *Biochem. Biophys. Res. Commun.* 289: 111-115.
5. Selicorni, A., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. *Hum. Genet.* 110: 64-67.

## CHROMOSOMAL LOCATION

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

## SOURCE

TATDN1 (B-2) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 217-253 within an internal region of TATDN1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TATDN1 (B-2) is available conjugated to agarose (sc-376053 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376053 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376053 PE), fluorescein (sc-376053 FITC), Alexa Fluor® 488 (sc-376053 AF488), Alexa Fluor® 546 (sc-376053 AF546), Alexa Fluor® 594 (sc-376053 AF594) or Alexa Fluor® 647 (sc-376053 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376053 AF680) or Alexa Fluor® 790 (sc-376053 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376053 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

## APPLICATIONS

TATDN1 (B-2) is recommended for detection of TATDN1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (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 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.

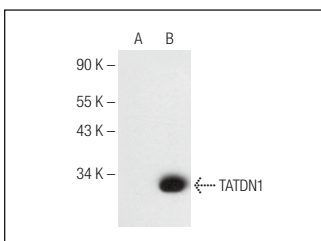
Positive Controls: TATDN1 (h): 293T Lysate: sc-117121.

## RECOMMENDED SUPPORT REAGENTS

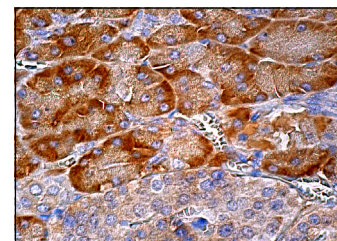
To ensure optimal results, the following support reagents are recommended:

- 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

## DATA



TATDN1 (B-2): sc-376053. Western blot analysis of TATDN1 expression in non-transfected: sc-117752 (A) and human TATDN1 transfected: sc-117121 (B) 293T whole cell lysates.



TATDN1 (B-2): sc-376053. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of glandular cells.

## 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.