SANTA CRUZ BIOTECHNOLOGY, INC.

TSNAXIP1 (C-2): sc-390521

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TSNAXIP1 (translin-associated factor X-interacting protein 1) is a 658 amino acid gene product believed to interact with TSNAX (translin-associated factor X). TSNAX, a translin family protein, is often found as a sumoylated perinuclear association factor. The TSNAX gene is located immediately upstream of DISC1 (disrupted-in-schizophrenia-1) and together are candidate genes in relation to psychiatric illness, as one transcript variation may result from intergenic splicing to encode a novel TSNAX-DISC1 fusion protein. The gene encoding TSNAXIP1 is located on chromosome 16 which encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders. 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, though through the CREBBP gene which encodes a critical CREB binding protein.

REFERENCES

1. Williams, J.M., et al. 2009. A 1q42 deletion involving DISC1, DISC2, and TSNAX in an autism spectrum disorder. Am. J. Med. Genet. A 149A: 1758-1762.
2. Lluis, M., et al. 2010. Analysis of nucleic acid binding by a recombinant translin-trax complex. Biochem. Biophys. Res. Commun. 396: 709-713.
3. Jaendling, A. and McFarlane, R.J. 2010. Biological roles of translin and translin-associated factor-X: RNA metabolism comes to the fore. Biochem. J. 429: 225-234.
4. Schosser, A., et al. 2010. Association of DISC1 and TSNAX genes and affective disorders in the depression case-control (DeCC) and bipolar affective case-control (BACCS) studies. Mol. Psychiatry 15: 844-849.

CHROMOSOMAL LOCATION

Genetic locus: TSNAXIP1 (human) mapping to 16q22.1.

SOURCE

TSNAXIP1 (C-2) is a mouse monoclonal antibody raised against amino acids 63-260 mapping within an internal region of TSNAXIP1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-390521 X, 200 µg/0.1 ml.

TSNAXIP1 (C-2) is available conjugated to agarose (sc-390521 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-390521 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390521 PE), fluorescein (sc-390521 FITC), Alexa Fluor® 488 (sc-390521 AF488), Alexa Fluor® 546 (sc-390521 AF546), Alexa Fluor® 594 (sc-390521 AF594) or Alexa Fluor® 647 (sc-390521 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390521 AF680) or Alexa Fluor® 790 (sc-390521 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

TSNAXIP1 (C-2) is recommended for detection of TSNAXIP1 of 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TSNAXIP1 siRNA (h): sc-93031, TSNAXIP1 shRNA Plasmid (h): sc-93031-SH and TSNAXIP1 shRNA (h) Lentiviral Particles: sc-93031-V.

TSNAXIP1 (C-2) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

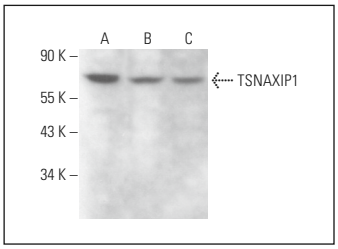
Molecular Weight of TSNAXIP1: 76 kDa.

Positive Controls: TSNAXIP1 (h2): 293T Lysate: sc-111820, AN3 CA cell lysate: sc-24662 or SJRH30 cell lysate: sc-2287.

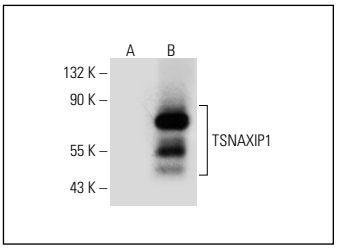
RECOMMENDED SUPPORT REAGENTS

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.

DATA



TSNAXIP1 (C-2): sc-390521. Western blot analysis of TSNAXIP1 expression in AN3 CA (**A**), SJRH30 (**B**) and MIA PaCa-2 (**C**) whole cell lysates.



TSNAXIP1 (C-2): sc-390521. Western blot analysis of TSNAXIP1 expression in non-transfected: sc-117752 (**A**) and human TSNAXIP1 transfected: sc-111820 (**B**) 293T whole cell lysates.

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.