

TSNAXIP1 (H-198): sc-292015

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 inter-genic 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

- 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.
- Lluis, M., et al. 2010. Analysis of nucleic acid binding by a recombinant translin-trax complex. *Biochem. Biophys. Res. Commun.* 396: 709-713.
- Jaendling, A., et al. 2010. Biological roles of translin and translin-associated factor-X: RNA metabolism comes to the fore. *Biochem. J.* 429: 225-234.
- 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.
- Okuda, A., et al. 2010. Translin-associated factor X gene (TSNAX) may be associated with female major depressive disorder in the Japanese population. *Neuromolecular Med.* 12: 78-85.

CHROMOSOMAL LOCATION

Genetic locus: TSNAXIP1 (human) mapping to 16q22.1; Tsnaxip1 (mouse) mapping to 8 D3.

SOURCE

TSNAXIP1 (H-198) is a rabbit polyclonal antibody raised against amino acids 63-260 mapping within an internal region of TSNAXIP1 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292015 X, 200 µg/0.1 ml.

STORAGE

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

APPLICATIONS

TSNAXIP1 (H-198) is recommended for detection of TSNAXIP1 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).

Suitable for use as control antibody for TSNAXIP1 siRNA (h): sc-93031, TSNAXIP1 siRNA (m): sc-154722, TSNAXIP1 shRNA Plasmid (h): sc-93031-SH, TSNAXIP1 shRNA Plasmid (m): sc-154722-SH, TSNAXIP1 shRNA (h) Lentiviral Particles: sc-93031-V and TSNAXIP1 shRNA (m) Lentiviral Particles: sc-154722-V.

TSNAXIP1 (H-198) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

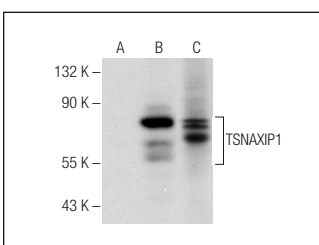
Molecular Weight of TSNAXIP1: 76 kDa.

Positive Controls: TSNAXIP1 (h2): 293T Lysate: sc-111820 or mouse lung extract: sc-2390.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



TSNAXIP1 (H-198): sc-292015. Western blot analysis of TSNAXIP1 expression in non-transfected: sc-117752 (A) and human TSNAXIP1 transfected: sc-111820 (B) 293T whole cell lysates and mouse lung tissue extract (C).

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.