SANTA CRUZ BIOTECHNOLOGY, INC.

TXNDC13 (Y-18): sc-85988

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Representing about 2% of human DNA, chromosome 20 consists of approximately 63 million bases and 600 genes. Chromosome 20 contains a region with numerous genes expressed in the epididymis that are thought important for seminal production and some viewed as potential targets for male contraception. The PRNP gene encoding the prion protein associated with spongiform encephalopathies, like Creutzfeldt-Jakob disease, is found on chromosome 20. Amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome are also associated with chromosome 20. The TXNDC13 gene product has been provisionally designated TXNDC13 pending further characterization.

REFERENCES

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3. Masullo, C. and Macchi, G. 2001. Does PRNP gene control the clinical and pathological phenotype of human spongiform transmissible encephalopathies? Clin. Neuropathol. 20: 19-25.
4. Joó, J.G., Beke, A., Tóth-Pál, E., Hargitai, B., Szigeti, Z., Papp, C. and Papp, Z. 2006. Trisomy 20 mosaicism and nonmosaic trisomy 20: a report of 2 cases. J. Reprod. Med. 51: 209-212.
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7. Kazantsev, A.G. 2007. Cellular pathways leading to neuronal dysfunction and degeneration. Drug News Perspect. 20: 501-509.
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CHROMOSOMAL LOCATION

Genetic locus: TMX4 (human) mapping to 20p12.3; Tmx4 (mouse) mapping to 2 F2.

SOURCE

TXNDC13 (Y-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TXNDC13 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-85988 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TXNDC13 (Y-18) is recommended for detection of TXNDC13 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with TXNDC9.

TXNDC13 (Y-18) is also recommended for detection of TXNDC13 in additional species, including canine, bovine and porcine.

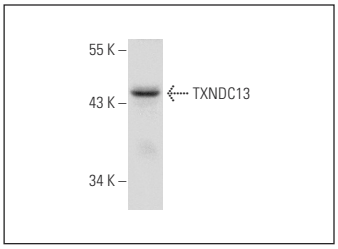
Suitable for use as control antibody for TXNDC13 siRNA (h): sc-76780, TXNDC13 siRNA (m): sc-154819, TXNDC13 shRNA Plasmid (h): sc-76780-SH, TXNDC13 shRNA Plasmid (m): sc-154819-SH, TXNDC13 shRNA (h) Lentiviral Particles: sc-76780-V and TXNDC13 shRNA (m) Lentiviral Particles: sc-154819-V.

Positive Controls: IMR-32 cell lysate: sc-2409, T-47D cell lysate: sc-2293 or IMR-32 cell lysate: sc-2409.

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) 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



TXNDC13 (Y-18): sc-85988. Western blot analysis of TXNDC13 expression in LADMAC whole cell lysate.

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.