SANTA CRUZ BIOTECHNOLOGY, INC.

TXNL1 (E-14): sc-55419

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Thioredoxins are small redox active proteins that play a variety of roles throughout the cell. TXNL1 (thioredoxin-like protein 1), also known as TRP32, TXL or TXL-1, is a 289 amino acid cytoplasmic protein that is thought to participate in endocytotic signaling pathways and may act as a redox sensor. Expressed throughout the body, TXNL1 functions to couple oxidative stress to endocytosis, thereby regulating the GDI:Rad5-mediated endocytic response. Additionally, overexpression of TXNL1 inhibits cell proliferation by predisposing the cell to G_0/G_1 arrest, suggesting that TXNL1 also functions as a transcriptional repressor. TXNL1 shares 99% homology with its mouse homolog and contains one thioredoxin domain.

CHROMOSOMAL LOCATION

Genetic locus: TXNL1 (human) mapping to 18q21.31; Txnl1 (mouse) mapping to 18 E1.

SOURCE

TXNL1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TXNL1 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-55419 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

TXNL1 (E-14) is recommended for detection of TXNL1 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).

TXNL1 (E-14) is also recommended for detection of TXNL1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TXNL1 siRNA (h): sc-63179, TXNL1 siRNA (m): sc-63180, TXNL1 shRNA Plasmid (h): sc-63179-SH, TXNL1 shRNA Plasmid (m): sc-63180-SH, TXNL1 shRNA (h) Lentiviral Particles: sc-63179-V and TXNL1 shRNA (m) Lentiviral Particles: sc-63180-V.

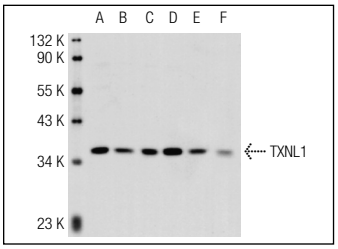
Molecular Weight of TXNL1: 32 kDa.

Positive Controls: SW480 cell lysate: sc-2219, HCT116 whole cell lysate or NTERA-2 cl.D1 whole cell lysate: sc-364181.

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



TXNL1 (E-14): sc-55419. Western blot analysis of TXNL1 expression in SW480 nuclear extract (**A**) and HCT 116 (**B**), NTERA-2 cl.D1 (**C**), HL-60 (**D**), K-562 (**E**) and SW480 (**F**) whole cell lysates.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **TXNL1 (F-6): sc-515218** or **TXNL1 (D-5): sc-365711**, our highly recommended monoclonal alternatives to TXNL1 (E-14).