SANTA CRUZ BIOTECHNOLOGY, INC.

TCEB3CL2 (D-13): sc-87448

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TCEB3CL2 (transcription elongation factor B polypeptide 3C-like 2), also known as RNA polymerase II transcription factor SIII subunit A3-like-2 or Elongin-A3-like-2, is a 546 amino acid nuclear protein that contains one TFIIS N-terminal domain. TCEB3CL2 exists as part of a heterotrimer consisting of Elongin-A (A1, A2 or A3), -B and -C subunits. TCEB3CL2 is encoded by a gene mapping to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

REFERENCES

1. Carstea, E.D., et al. 1993. Linkage of Niemann-Pick disease type C to human chromosome 18. Proc. Natl. Acad. Sci. USA 90: 2002-2004.
2. Petek, E., et al. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. Genet. Couns. 14: 239-244.
3. Raghavan, S.C., et al. 2004. A non-B-DNA structure at the Bcl-2 major breakpoint region is cleaved by the RAG complex. Nature 428: 88-93.
4. Grosso, S., et al. 2005. Chromosome 18 aberrations and epilepsy: a review. Am. J. Med. Genet. A 134A: 88-94.
5. Nusbaum, C., et al. 2005. DNA sequence and analysis of human chromosome 18. Nature 437: 551-555.
6. Aurizi, C., et al. 2007. Heterogeneity of mutations in the ferrochelatase gene in Italian patients with erythropoietic protoporphyria. Mol. Genet. Metab. 90: 402-407.
7. Herrero Hernández, E., et al. 2009. Hypermanganesemia, hereditary hemorrhagic telangiectasia, brain abscess: the hepatic connection. Neurology 73: 405; author reply 405-405; author reply 406.

CHROMOSOMAL LOCATION

Genetic locus: TCEB3CL2 (human) mapping to 18q12.3, TCEB3C (human) mapping to 18q21.1.

SOURCE

TCEB3CL2 (D-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of TCEB3CL2 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87448 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.

APPLICATIONS

TCEB3CL2 (D-13) is recommended for detection of TCEB3CL2 and Elongin A3 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of TCEB3CL2: 60 kDa.

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) 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.

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.