SANTA CRUZ BIOTECHNOLOGY, INC.

GTL3 (U-24): sc-133644

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

GTL3 (gene trap locus 3), also known as EVORF, fSAP23, C16orf80 or transcription factor IIB, is a 193 amino acid protein belonging to the UPF0468 family and may be involved in transcriptional regulation. The gene encoding GTL3 maps to human chromosome 16, which is associated with a variety of genetic disorders, encodes over 900 genes and comprises nearly 3% of the human genome. 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 associated with chromosome 16, as is Crohn's disease, which is a gastrointestinal inflammatory condition.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C16orf80 (human) mapping to 16q21; Gtl3 (mouse) mapping to 8 D1.

SOURCE

GTL3 (U-24) is an affinity purified rabbit polyclonal antibody raised against synthetic GTL3 peptide of human origin.

STORAGE

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

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

GTL3 (U-24) is recommended for detection of GTL3 of mouse, human and zebrafish 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for GTL3 siRNA (h): sc-75211, GTL3 siRNA (m): sc-75212, GTL3 shRNA Plasmid (h): sc-75211-SH, GTL3 shRNA Plasmid (m): sc-75212-SH, GTL3 shRNA (h) Lentiviral Particles: sc-75211-V and GTL3 shRNA (m) Lentiviral Particles: sc-75212-V.

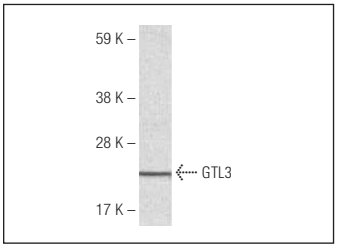
Molecular Weight of GTL3: 23 kDa.

Positive Controls: human placenta tissue extract.

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).

DATA



GTL3 (U-24): sc-133644. Western blot analysis of GTL3 expression in human placenta tissue extract.

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.