

TCFL5 (C-20): sc-85953

BACKGROUND

Transcription factors containing basic helix-loop-helix (bHLH) motifs are responsible for the regulation of neurogenesis, cardiogenesis, myogenesis, differentiation and cell proliferation. TCFL5 [transcription factor-like 5 (basic helix-loop-helix)], also known as cha transcription factor, HPV-16 E2-binding protein 1, CHA, Figlb, E2BP-1 or MGC46135, is a 500 amino acid protein belonging to the basic helix-loop-helix (bHLH) family. TCFL5 localizes to the nucleus and may function as a transcription factor during early spermatogenesis. TCFL5 is known to form a complex with upstream stimulatory factor (USF)-1, thereby negatively regulating USF-dependent transcription. Six isoforms of TCFL5 exist due to alternative splicing; isoform 2 is pancreas specific and isoform 3 is testis specific showing expression in primary spermatocytes at the pachytene stage. Antibodies against TCFL5 have been identified in patients with Chagas' disease, which is caused by *Trypanosoma cruzi* infection.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TCFL5 (human) mapping to 20q13.3; Tcfl5 (mouse) mapping to 2 H4.

SOURCE

TCFL5 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TCFL5 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 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-85953 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TCFL5 (C-20) is recommended for detection of TCFL5 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).

Suitable for use as control antibody for TCFL5 siRNA (h): sc-76637, TCFL5 siRNA (m): sc-154137, TCFL5 shRNA Plasmid (h): sc-76637-SH, TCFL5 shRNA Plasmid (m): sc-154137-SH, TCFL5 shRNA (h) Lentiviral Particles: sc-76637-V and TCFL5 shRNA (m) Lentiviral Particles: sc-154137-V.

Molecular Weight of TCFL5: 48 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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.

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.