

TGIF2LY (N-16): sc-84633

BACKGROUND

The homeobox DNA-binding domain is a 60 amino acid motif that is conserved among many species. It also functions to bind DNA via a helix-turn-helix structure, thereby playing a role in transcriptional regulation and control of gene expression. TGIF2LY (TGFB-induced factor homeobox 2-like, Y-linked), also known as TGIFLY, is a 185 amino acid testis-specific nuclear protein that functions as a transcriptional regulator during spermatid maturation. TGIF2LY belongs to the TALE/TGIF homeobox family and contains one homeobox DNA-binding domain. The gene encoding TGIF2LY maps within a male specific region of chromosome Y, in a region implied to form following a large X-to-Y transposition. The C-terminal region of TGIF2LY differs from the C-terminal region of its chromosome X homolog TGIF2LX, which suggests that TGIF2LY may act as a competitor or regulator of TGIF2LX.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TGIF2LY (human) mapping to Yp11.2, TGIF2LX (human) mapping to Xq21.31.

SOURCE

TGIF2LY (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of TGIF2LY 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.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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-84633 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TGIF2LY (N-16) is recommended for detection of TGIF2LY and TGIF2LX of 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).

Molecular Weight of TGIF2LY: 21 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.

PROTOCOLS

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