## SANTA CRUZ BIOTECHNOLOGY, INC.

# TGIF2LY (Y-24): sc-134084



#### 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 TGIF2LY (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 DNAbinding 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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- Ousati Ashtiani, Z., Ayati, M., Modarresi, M.H., Raoofian, R., Sabah Goulian, B., Greene, W.K. and Heidari, M. 2009. Association of TGIFLX/Y mRNA expression with prostate cancer. Med. Oncol. 26: 73-77.

#### CHROMOSOMAL LOCATION

Genetic locus: TGIF2LY (human) mapping to Yp11.2.

#### SOURCE

TGIF2LY (Y-24) is a Protein A purified rabbit polyclonal antibody raised against synthetic TGIF2LY peptide of human origin.

## PRODUCT

Each vial contains 100  $\mu g$  lgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## **STORAGE**

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

#### APPLICATIONS

TGIF2LY (Y-24) is recommended for detection of TGIF2LY of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 TGIF2LY siRNA (h): sc-91539, TGIF2LY shRNA Plasmid (h): sc-91539-SH and TGIF2LY shRNA (h) Lentiviral Particles: sc-91539-V.

Molecular Weight of TGIF2LY: 21 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 goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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).

## **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.