

TCEAL2 (V-22): sc-134067

BACKGROUND

Members of the TFS-II family contain TFA domains and are suggested to function as nuclear phosphoproteins that modulate transcription in a promoter context-dependent manner. TCEAL proteins are known to play significant roles as tumor suppressors to transcriptional regulators. TCEAL2 (transcription elongation factor A (SII)-like 2), also known as my048 or MY0876G05, is a 277 amino acid nuclear protein belonging to the TFS-II family. Considered a transcriptional regulator, TCEAL2 is encoded by a gene located on human chromosome X. Human chromosome X contains nearly 153 million base pairs and houses over 1,000 genes. In conjunction with chromosome Y, chromosome X is responsible for sex determination, as an X and a Y chromosome lead to normal male development, while two copies of an X chromosome lead to normal female development. There are a number of conditions related to an abnormal number and combination of sex chromosomes, some of which include Turner's syndrome, color blindness, hemophilia and Duchenne muscular dystrophy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TCEAL2 (human) mapping to Xq22.1.

STORAGE

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

SOURCE

TCEAL2 (V-22) is an affinity purified rabbit polyclonal antibody raised against synthetic TCEAL2 peptide of human origin.

PRODUCT

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

APPLICATIONS

TCEAL2 (V-22) is recommended for detection of TCEAL2 of human 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 TCEAL2 siRNA (h): sc-91172, TCEAL2 shRNA Plasmid (h): sc-91172-SH and TCEAL2 shRNA (h) Lentiviral Particles: sc-91172-V.

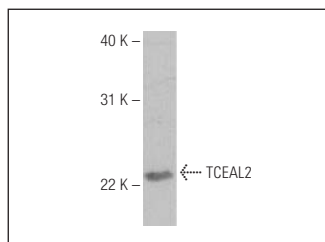
Molecular Weight of TCEAL2: 26 kDa.

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™ 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



TCEAL2 (V-22): sc-134067. Western blot analysis of TCEAL2 expression in Hep G2 whole cell lysate.

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.