

## TCEAL2 (G-13): sc-169535

### 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 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TCEAL2 of human origin.

### 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-169535 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

TCEAL2 (G-13) is recommended for detection of TCEAL2 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); non cross-reactive with other TCEAL family members.

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 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](http://www.scbt.com) or our catalog for detailed protocols and support products.