

# TCEAL7 (E-14): sc-240961

## BACKGROUND

TCEAL7 (transcription elongation factor A protein-like 7), also known as transcription elongation factor S-II protein-like 7, is a 100 amino acid nuclear protein that belongs to the TFS-II family and the TFA subfamily. While highly expressed in normal and fetal brain tissues, TCEAL7 is weakly expressed in uterus and ovary. In addition, TCEAL7 is down-regulated in epithelial ovarian, cervical, prostate, breast, brain and lung cancer cell lines and in brain and ovarian tumors. TCEAL7 plays a role in the negative regulation of NF $\kappa$ B signaling at the basal level by modulating transcriptional activity of NF $\kappa$ B on its target gene promoters. Associating with cyclin D1 promoter containing Myc E-box sequence, TCEAL7 transcriptionally represses cyclin D1 expression. Acting in both ALT (alternative lengthening of telomeres) and telomerase-positive cell lines, TCEAL7 regulates telomerase reverse transcriptase expression and telomerase activity.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TCEAL7 (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

TCEAL7 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TCEAL7 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-240961 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TCEAL7 (E-14) is recommended for detection of TCEAL7 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 TCEAL7 siRNA (h): sc-91253, TCEAL7 shRNA Plasmid (h): sc-91253-SH and TCEAL7 shRNA (h) Lentiviral Particles: sc-91253-V.

Molecular Weight of TCEAL7: 12 kDa.

## 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.