

TCEAL1 (SS-M5): sc-135577

BACKGROUND

TCEAL1 (transcription elongation factor A (SII) protein 3), also known as p21, SIIR or pp21, is a member of the TFS-II family. Transcription elongation factors of the TFS-II family are responsible for releasing RNA polymerase II (Pol II) from transcriptional arrest. DNA arresting sites can result in locked ternary complexes if elongating RNA polymerases are trapped. Transcription elongation factors function to activate the intrinsic RNA cleavage activity of RNA polymerases. This allows the RNA polymerase to cleave the nascent transcript, thereby forming a new 3'-terminus to resume elongation. TCEAL1 is a 157 amino acid nuclear protein that is ubiquitously expressed. TCEAL1 may exert its effects via protein-protein interactions with other transcriptional regulators rather than via direct binding of DNA. Phosphorylation of TCEAL1 on Ser-36 and Ser-37 is critical for transcriptional repression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TCEAL1 (human) mapping to Xq22.2.

SOURCE

TCEAL1 (SS-M5) is a mouse monoclonal antibody raised against recombinant TCEAL1 protein of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TCEAL1 (SS-M5) is recommended for detection of TCEAL1 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 TCEAL1 siRNA (h): sc-91043, TCEAL1 shRNA Plasmid (h): sc-91043-SH and TCEAL1 shRNA (h) Lentiviral Particles: sc-91043-V.

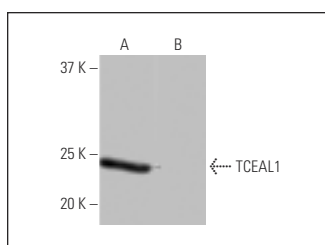
Molecular Weight of TCEAL1: 21 kDa.

Positive Controls: human TCEAL1 transfected 293T whole cell lysate.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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



TCEAL1 (SS-M5): sc-135577. Western blot analysis of TCEAL1 expression in human TCEAL1 transfected (A) and non-transfected (B) 293T whole cell lysates.

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.

PROTOCOLS

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