

TCEA3 (R-18): sc-55781

BACKGROUND

TCEA3 (transcription elongation factor A (SII) protein 3), also known as TFIIIS.h, 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. TCEA3 is a 348 amino acid protein and it contains one TFIIIS N-terminal domain, one TFIIIS central domain and one TFIIIS-type zinc finger. TCEA3 localizes to the nucleus and binds to Pol II, functioning to assist its transcription elongation past arresting sites.

CHROMOSOMAL LOCATION

Genetic locus: Tcea3 (mouse) mapping to 4 D3.

SOURCE

TCEA3 (R-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TCEA3 of rat origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-55781 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-55781 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

TCEA3 (R-18) is recommended for detection of TCEA3 of mouse and rat 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)], 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).

TCEA3 (R-18) is also recommended for detection of TCEA3 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TCEA3 siRNA (m): sc-63112, TCEA3 shRNA Plasmid (m): sc-63112-SH and TCEA3 shRNA (m) Lentiviral Particles: sc-63112-V.

TCEA3 (R-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

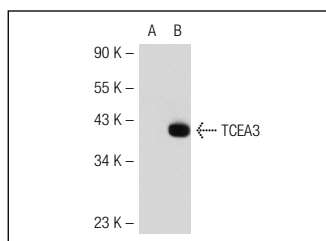
Molecular Weight of TCEA3: 39 kDa.

Positive Controls: TCEA3 (m): 293T Lysate: sc-126083 or NIH/3T3 nuclear extract: sc-2138.

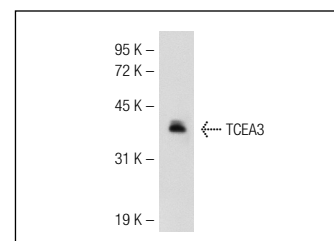
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



TCEA3 (R-18): sc-55781. Western blot analysis of TCEA3 expression in non-transfected: sc-117752 (A) and mouse TCEA3 transfected: sc-126083 (B) 293T whole cell lysates.



TCEA3 (R-18): sc-55781. Western blot analysis of TCEA3 expression in NIH/3T3 nuclear extract.

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.



Try **TCEA3 (C-7): sc-365894**, our highly recommended monoclonal alternative to TCEA3 (R-18).