SANTA CRUZ BIOTECHNOLOGY, INC.

# TCF-19 (N-20): sc-69026

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## BACKGROUND

TCF-19 (transcription factor 19), also known as SC1 or SC1-1, is a 345 amino acid protein that contains one FHA domain, a proline-rich domain and one PHD-type zinc finger. Localizing to the nucleus, TCF-19 is a growth regulated protein that is believed to function as a *trans*-activating factor with a role in the transcription of genes involved in the late stages of cell cycle progression ($G_1$/S transition or entry of cells into $G_2$ and mitosis). TCF-19 is expressed preferentially in the $G_1$/S phase of the cell cycle. The gene encoding TCF-19 localizes to a critical region on chromosome 6 that has been associated with psoriasis vulgaris, a disorder of the skin that is characterized by hyperproliferation of epidermal cells. This suggests that TCF-19, via its regulation of late cell cycle-specific genes, may play a role in the development of this disorder.

## CHROMOSOMAL LOCATION

Genetic locus: TCF19 (human) mapping to 6p21.33; Tcf19 (mouse) mapping to 17 B1.

## SOURCE

TCF-19 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TCF-19 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-69026 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-69026 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## APPLICATIONS

TCF-19 (N-20) is recommended for detection of TCF-19 of mouse, rat and 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)], 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).

TCF-19 (N-20) is also recommended for detection of TCF-19 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TCF19 siRNA (h): sc-63113, TCF19 siRNA (m): sc-63114, TCF19 shRNA Plasmid (h): sc-63113-SH, TCF19 shRNA Plasmid (m): sc-63114-SH, TCF19 shRNA (h) Lentiviral Particles: sc-63113-V and TCF19 shRNA (m) Lentiviral Particles: sc-63114-V.

TCF-19 (N-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

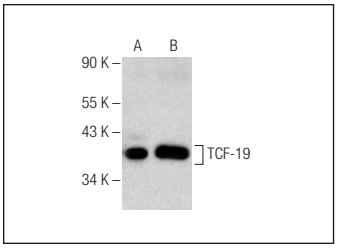
Molecular Weight of TCF-19: 37 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132, mouse thymus extract: sc-2406 or HeLa nuclear extract: sc-2120.

## 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




TCF-19 (N-20): sc-69026. Western blot analysis of TCF-19 expression in Jurkat nuclear extract (**A**) and mouse thymus tissue extract (**B**).

## STORAGE

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

## PROTOCOLS

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

MONOS Satisfaction Guaranteed

Try **TCF-19 (H-2): sc-390923** or **TCF-19 (F-27): sc-101169**, our highly recommended monoclonal alternatives to TCF-19 (N-20).