

# FANK1 (T-14): sc-162815

## BACKGROUND

FANK1 (fibronectin type III and ankyrin repeat domains 1), also known as HSD13, is a 345 amino acid nuclear and cytoplasmic testis-specific protein found primarily in pachytene spermatocytes and round spermatids. Containing six ANK repeats and a single fibronectin type-III domain, FANK1 undergoes alternative splicing events to form three isoforms. Possessing DNA binding activity, FANK1 is suggested to act as a transcription factor and may regulate gene expression during spermatogenesis. The gene encoding FANK1 maps to human chromosome 10, which contains over 800 genes and 135 million nucleotides, making up nearly 4.5% of the human genome. PTEN is an important tumor suppressor gene located on chromosome 10 and, when defective, causes a genetic predisposition to cancer development known as Cowden syndrome.

## CHROMOSOMAL LOCATION

Genetic locus: FANK1 (human) mapping to 10q26.2; Fank1 (mouse) mapping to 7 F3.

## SOURCE

FANK1 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FANK1 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-162815 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-162815 X, 200 µg/0.1 ml.

## APPLICATIONS

FANK1 (T-14) is recommended for detection of FANK1 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).

FANK1 (T-14) is also recommended for detection of FANK1 in additional species, including equine and canine.

Suitable for use as control antibody for FANK1 siRNA (h): sc-90625, FANK1 siRNA (m): sc-145066, FANK1 shRNA Plasmid (h): sc-90625-SH, FANK1 shRNA Plasmid (m): sc-145066-SH, FANK1 shRNA (h) Lentiviral Particles: sc-90625-V and FANK1 shRNA (m) Lentiviral Particles: sc-145066-V.

FANK1 (T-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

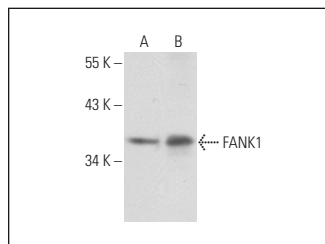
Molecular Weight of FANK1: 38 kDa.

Positive Controls: NTERA-2 cl.D1 whole cell lysate: sc-364181 or K-562 nuclear extract: sc-2130.

## 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



FANK1 (T-14): sc-162815. Western blot analysis of FANK1 expression in NTERA-2 cl.D1 whole cell lysate (A) and K-562 nuclear extract (B).

## 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.



Try **FANK1 (F-5): sc-398026** or **FANK1 (E-5): sc-398057**, our highly recommended monoclonal alternatives to FANK1 (T-14).