

# TIGD3 (Z-23): sc-134088

## BACKGROUND

TIGD3 (tigger transposable element derived 3) is a 471 amino acid nuclear protein that belongs to the tigger subfamily of the pogo superfamily of DNA-mediated transposons. Containing one HTH psq-type DNA-binding domain, a HTH CENPB-type DNA-binding domain and a single DDE domain, TIGD3 is encoded by a gene located on human chromosome 11, which comprises approximately 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11-encoded genes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TIGD3 (human) mapping to 11q13.1; Tigd3 (mouse) mapping to 19 A.

## SOURCE

TIGD3 (Z-23) is a Protein A purified rabbit polyclonal antibody raised against synthetic TIGD3 peptide of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

TIGD3 (Z-23) is recommended for detection of TIGD3 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TIGD3 siRNA (h): sc-96545, TIGD3 siRNA (m): sc-154269, TIGD3 shRNA Plasmid (h): sc-96545-SH, TIGD3 shRNA Plasmid (m): sc-154269-SH, TIGD3 shRNA (h) Lentiviral Particles: sc-96545-V and TIGD3 shRNA (m) Lentiviral Particles: sc-154269-V.

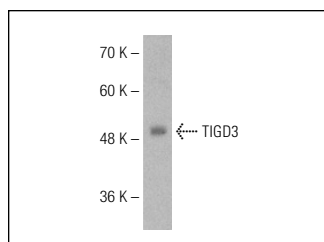
Molecular Weight of TIGD3: 52 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

## DATA



TIGD3 (Z-23): sc-134088. Western blot analysis of TIGD3 expression in Jurkat whole cell lysate.

## 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.