

TIGD2 (N-14): sc-244317

BACKGROUND

TIGD2 (tigger transposable element derived 2) is a 525 amino acid protein that localizes to the nucleus and belongs to the tigger subfamily of the pogo superfamily of DNA-mediated transposons. TIGD2 contains one DDE domain, one HTH CENPB-type DNA-binding domain and one HTH psq-type DNA binding domain, through which it may bind to and regulate the activities of DNA. The gene encoding human TIGD2 maps to chromosome 4, which encodes nearly 6% of the human genome and has the largest gene deserts (regions of the genome with no protein encoding genes) of all of the human chromosomes. Defects in some of the genes located on chromosome 4 are associated with Huntington's disease, Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TIGD2 (human) mapping to 4q22.1; Tigd2 (mouse) mapping to 6 B3.

SOURCE

TIGD2 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of TIGD2 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 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-244317 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TIGD2 (N-14) is recommended for detection of TIGD2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other TIGD family members.

TIGD2 (N-14) is also recommended for detection of TIGD2 in additional species, including bovine.

Suitable for use as control antibody for TIGD2 siRNA (h): sc-88914, TIGD2 siRNA (m): sc-154268, TIGD2 shRNA Plasmid (h): sc-88914-SH, TIGD2 shRNA Plasmid (m): sc-154268-SH, TIGD2 shRNA (h) Lentiviral Particles: sc-88914-V and TIGD2 shRNA (m) Lentiviral Particles: sc-154268-V.

Molecular Weight of TIGD2: 60 kDa.

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) 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.

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.