



## TTDN1 (G-15): sc-83052

### BACKGROUND

TTDN1 (TTD non-photosensitive 1 protein), also known as C7orf11, ABHS or ORF20, is a 179 amino acid protein that localizes to the nucleus and shares 92% amino acid identity with its mouse counterpart. Expressed at high levels in kidney and liver and present at lower levels in placenta, heart, skeletal muscle, pancreas, lung and brain tissue, TTDN1 is thought to be involved in the maintenance of cell cycle integrity, specifically playing a role in the regulation of mitosis and cytokinesis. Defects in the gene encoding TTDN1 are associated with trichothiodystrophy non-photosensitive type 1 (TTDN1), which is also known as Amish brittle hair brain syndrome (ABHS) and is an autosomal recessive disorder that is characterized by decreased male fertility, short stature and brittle hair.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: C7orf11 (human) mapping to 7p14.1; 2810021B07Rik (mouse) mapping to 13 A2.

### RESEARCH USE

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

### SOURCE

TTDN1 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TTDN1 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-83052 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

TTDN1 (G-15) is recommended for detection of TTDN1 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).

Suitable for use as control antibody for TTDN1 siRNA (h): sc-76770, TTDN1 siRNA (m): sc-76771, TTDN1 shRNA Plasmid (h): sc-76770-SH, TTDN1 shRNA Plasmid (m): sc-76771-SH, TTDN1 shRNA (h) Lentiviral Particles: sc-76770-V and TTDN1 shRNA (m) Lentiviral Particles: sc-76771-V.

Molecular Weight of TTDN1: 19 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.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.