**BACKGROUND**

Down syndrome is characterized by an extra copy of chromosome 21. The Down syndrome critical region (DSCR) maps specifically to chromosome 21q22.13 and includes several genes, which are likely associated with the pathogenesis of Down syndrome. Tetratricopeptide repeat domain 3 (TTC3), also referred to as DCRR1, is a 1,941 amino acid member of the DSCR family that contains 3 tetratricopeptide repeat (TPR) motifs, an N-terminal domain that is similar to many protein phosphatases, a transmembrane domain, and a C-terminal region that resembles Myosin heavy chains or proteins involved with cytoskeleton dynamics, including CENPE. TTC3 is expressed in several tissues, including spleen, thymus, prostate and ovary, but not in placenta, lung or liver. Overexpression of TTC3 may be the cause of many various morphologic anomalies that occur in Down syndrome.

**REFERENCES**


**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-49563 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

TTC3 (F-19) is recommended for detection of TTC3 isoforms 1,2 and 3 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).

TTC3 (F-19) is also recommended for detection of TTC3 isoforms 1,2 and 3 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for TTC3 siRNA (h): sc-61732, TTC3 siRNA (m): sc-61733, TTC3 shRNA Plasmid (h): sc-61732-SH, TTC3 shRNA Plasmid (m): sc-61733-SH, TTC3 shRNA (h) Lentiviral Particles: sc-61732-V and TTC3 shRNA (m) Lentiviral Particles: sc-61733-V.

Molecular Weight of TTC3: 230 kDa.

**CHROMOSOMAL LOCATION**

Genetic locus: TTC3 (human) mapping to 21q22.13; Ttc3 (mouse) mapping to 16 C4.

**SOURCE**

TTC3 (F-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TTC3 of human origin.

**RESEARCH USE**

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

**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.