

# TTC28 (K-13): sc-86926

## BACKGROUND

TTC28 (tetratricopeptide repeat domain 28), also known as tetratricopeptide (TPR) repeat protein 28, is a 2,481 amino acid binding protein that contains 28 TPR repeats. TTC28 encodes hypothetical proteins of unknown function in both human and chimpanzee. Encoded by a gene that maps to human chromosome 22q12.1, the gene structure of TTC28 is unascertained. As the second smallest human chromosome, chromosome 22 contains over 500 genes and about 49 million bases. Phelan-McDermid syndrome, neurofibromatosis type 2 and autism are associated with chromosome 22. A schizophrenia susceptibility locus has been identified on chromosome 22 and studies show that 22q12.1 deletion symptoms include a high incidence of schizophrenia. Translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein, Bcr-Abl, a potent cell proliferation activator found in several types of leukemia.

## REFERENCES

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## RESEARCH USE

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

## CHROMOSOMAL LOCATION

Genetic locus: TTC28 (human) mapping to 22q12.1; Ttc28 (mouse) mapping to 5 F.

## SOURCE

TTC28 (K-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of TTC28 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-86926 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TTC28 (K-13) is recommended for detection of TTC28 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 TTC family members.

TTC28 (K-13) is also recommended for detection of TTC28 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TTC28 siRNA (h): sc-106647, TTC28 siRNA (m): sc-154765, TTC28 shRNA Plasmid (h): sc-106647-SH, TTC28 shRNA Plasmid (m): sc-154765-SH, TTC28 shRNA (h) Lentiviral Particles: sc-106647-V and TTC28 shRNA (m) Lentiviral Particles: sc-154765-V.

Molecular Weight of TTC28: 271 kDa.

## 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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.