

TTC1 (L-14): sc-160880

BACKGROUND

The tetratricopeptide repeat (TPR) motif is a degenerate, 34 amino acid sequence found in many proteins and acts to mediate protein-protein interactions in various pathways. At the sequence level, there can be up to 16 tandem TPR repeats, each of which has a helix-turn-helix shape that stacks on other TPR repeats to achieve ligand binding specificity. TTC1 (tetratricopeptide repeat domain 1), also known as TPR1, is a 292 amino acid protein containing 3 TPR repeats. Considered a chaperone adaptor, TTC1 regulates HSP 70-dependent folding processes by interacting with the C-terminal domain of HSP 70. TTC1 also interacts with Ras and a few G_{α} proteins, suggesting a function in protein-protein interaction relating to G protein signaling. The gene encoding TTC1 is located on human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome.

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CHROMOSOMAL LOCATION

Genetic locus: TTC1 (human) mapping to 5q33.3; Ttc1 (mouse) mapping to 11 B1.1.

SOURCE

TTC1 (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TTC1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160880 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TTC1 (L-14) is recommended for detection of TTC1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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.

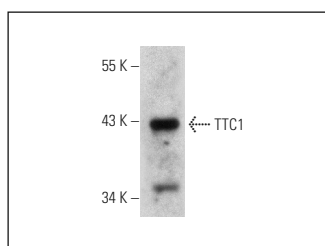
TTC1 (L-14) is also recommended for detection of TTC1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TTC1 siRNA (h): sc-91620, TTC1 siRNA (m): sc-154749, TTC1 shRNA Plasmid (h): sc-91620-SH, TTC1 shRNA Plasmid (m): sc-154749-SH, TTC1 shRNA (h) Lentiviral Particles: sc-91620-V and TTC1 shRNA (m) Lentiviral Particles: sc-154749-V.

Molecular Weight of TTC1: 34 kDa.

Positive Controls: mouse heart extract: sc-2254.

DATA



TTC1 (L-14): sc-160880. Western blot analysis of TTC1 expression in mouse heart tissue extract.

STORAGE

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

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.