

TTC15 (G-20): sc-249120

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. TTC15 (TPR repeat protein 15), also known as TRAPPC12 (trafficking protein particle complex subunit 12) or CGI-87, is a 735 amino acid protein that contains 4 TPR repeats. Localizing to the endoplasmic reticulum (ER)-Golgi intermediate compartment, TTC15 may be involved in the early stage trafficking between the ER and Golgi apparatus, and is a component of the TRAPP tethering complex. The gene encoding TTC15 maps to human chromosome 2p25.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRAPPC12 (human) mapping to 2p25.3; Trappc12 (mouse) mapping to 12 A2.

SOURCE

TTC15 (G-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TTC15 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-249120 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TTC15 (G-20) is recommended for detection of TTC15 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.

TTC15 (G-20) is also recommended for detection of TTC15 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TTC15 siRNA (h): sc-94264, TTC15 siRNA (m): sc-154753, TTC15 shRNA Plasmid (h): sc-94264-SH, TTC15 shRNA Plasmid (m): sc-154753-SH, TTC15 shRNA (h) Lentiviral Particles: sc-94264-V and TTC15 shRNA (m) Lentiviral Particles: sc-154753-V.

Molecular Weight of TTC15: 79 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.