

# TMTC1 (G-14): sc-137863

## BACKGROUND

The tetratricopeptide repeat (TPR) motif is a degenerate, 34 amino acid sequence found in many proteins that 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. TMTC1 (transmembrane and tetratricopeptide repeat containing 1), also known as ARG99, is a 882 amino acid multi-pass membrane protein belonging to the TMTC family and contains ten TPR repeats. TMTC1 exists as up to five isoforms due to alternative splicing.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TMTC1 (human) mapping to 12p11.22.

## SOURCE

TMTC1 (G-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of TMTC1 of human origin.

## RESEARCH USE

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

## 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-137863 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TMTC1 (G-14) is recommended for detection of TMTC1 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TMTC family members.

TMTC1 (G-14) is also recommended for detection of TMTC1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TMTC1 siRNA (h): sc-95670, TMTC1 shRNA Plasmid (h): sc-95670-SH and TMTC1 shRNA (h) Lentiviral Particles: sc-95670-V.

Molecular Weight of TMTC1: 99 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.