

# TTC35 (F-3): sc-166605

## 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. TTC35 (tetratricopeptide repeat domain 35), also known as KIAA0103, is a 297 amino acid protein that contains three tetratricopeptide repeats and localizes to the inner nuclear membrane. Its similarity to the *Nicotiana tabacum* GlcNAc transferase protein suggests that TTC35 may be a putative O-linked glycosyl transferase.

## REFERENCES

- Young, J.C., et al. 1998. Specific binding of tetratricopeptide repeat proteins to the C-terminal 12 kDa domain of HSP 90. *J. Biol. Chem.* 273: 18007-18010.
- Dreger, M., et al. 2001. Nuclear envelope proteomics: novel integral membrane proteins of the inner nuclear membrane. *Proc. Natl. Acad. Sci. USA* 98: 11943-11948.
- Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607722. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Xu, A., et al. 2004. Identification of mRNA that binds to eukaryotic initiation factor 5A by affinity co-purification and differential display. *Biochem. J.* 384: 585-590.
- Cortajarena, A.L., et al. 2004. Protein design to understand peptide ligand recognition by tetratricopeptide repeat proteins. *Protein Eng. Des. Sel.* 17: 399-409.

## CHROMOSOMAL LOCATION

Genetic locus: TTC35 (human) mapping to 8q23.1; Ttc35 (mouse) mapping to 15 B3.2.

## SOURCE

TTC35 (F-3) is a mouse monoclonal antibody raised against amino acids 1-297 representing full length TTC35 of human origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TTC35 (F-3) is available conjugated to agarose (sc-166605 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-166605 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166605 PE), fluorescein (sc-166605 FITC), Alexa Fluor<sup>®</sup> 488 (sc-166605 AF488), Alexa Fluor<sup>®</sup> 546 (sc-166605 AF546), Alexa Fluor<sup>®</sup> 594 (sc-166605 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-166605 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-166605 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-166605 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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## APPLICATIONS

TTC35 (F-3) is recommended for detection of TTC35 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for TTC35 siRNA (h): sc-77588, TTC35 siRNA (m): sc-154772, TTC35 shRNA Plasmid (h): sc-77588-SH, TTC35 shRNA Plasmid (m): sc-154772-SH, TTC35 shRNA (h) Lentiviral Particles: sc-77588-V and TTC35 shRNA (m) Lentiviral Particles: sc-154772-V.

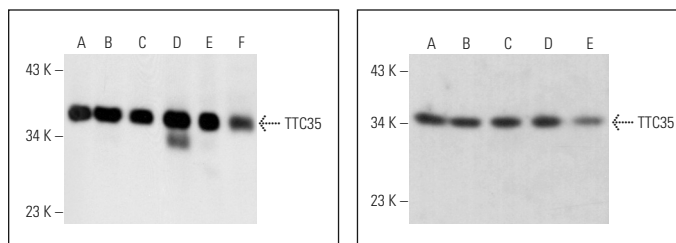
Molecular Weight of TTC35: 40 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or OV-90 whole cell lysate: sc-364191.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



TTC35 (F-3): sc-166605. Western blot analysis of TTC35 expression in Jurkat (A), HeLa (B), Ramos (C), OV-90 (D), ES-2 (E) and NIH/3T3 (F) whole cell lysates.

TTC35 (F-3): sc-166605. Western blot analysis of TTC35 expression in Jurkat (A), Ramos (B), NIH/3T3 (C), 3T3-L1 (D) and L6 (E) whole cell lysates.

## 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](http://www.scbt.com) for detailed protocols and support products.