SANTA CRUZ BIOTECHNOLOGY, INC.

TTC35 (FL-297): sc-98318

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The tetratricopeptide repeat (TRP) 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 TRP repeats, each of which has a helix-turn-helix shape that stacks on other TRP repeats to achieve ligand binding specificity. TTC35 (tetratricopeptide repeat domain 35), also known as KIAA0103, is a 297 amino acid protein that contains 3 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

1. 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.
2. 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.
3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607722. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
4. 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.
5. Cortajarena, A.L., et al. 2004. Protein design to understand peptide ligand recognition by tetratricopeptide repeat proteins. Protein Eng. Des. Sel. 17: 399-409.
6. Dmitriev, R.I., et al. 2007. Characterization of hampin/MSL1 as a node in the nuclear interactome. Biochem. Biophys. Res. Commun. 355: 1051-1057.

CHROMOSOMAL LOCATION

Genetic locus: EMC2 (human) mapping to 8q23.1; Ttc35 (mouse) mapping to 15 B3.2.

SOURCE

TTC35 (FL-297) is a rabbit polyclonal antibody raised against amino acids 1-297 representing full length TTC35 of human origin.

PRODUCT

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

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 or our catalog for detailed protocols and support products.

APPLICATIONS

TTC35 (FL-297) is recommended for detection of TTC35 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

TTC35 (FL-297) is also recommended for detection of TTC35 in additional species, including equine, canine, bovine and avian.

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.

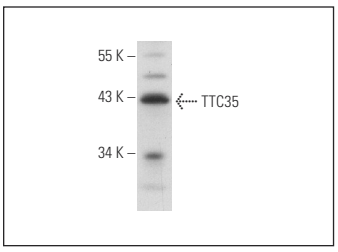
Molecular Weight of TTC35: 40 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, NIH/3T3 whole cell lysate: sc-2210 or Jurkat whole cell lysate: sc-2204.

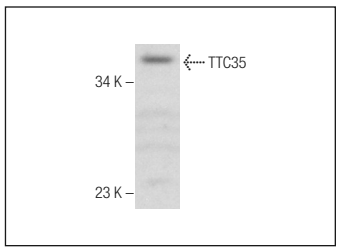
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



TTC35 (FL-297): sc-98318. Western blot analysis of TTC35 expression in NIH/3T3 whole cell lysate.



TTC35 (FL-297): sc-98318. Western blot analysis of TTC35 expression in HeLa whole cell lysate.

RESEARCH USE

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