

TCP-1 γ (V-14): sc-13875

BACKGROUND

The protein TCP-1 (t-complex polypeptide 1) is a subunit of the heterooligomeric complex CCT (chaperonin containing TCP-1) present in the eukaryotic cytosol. The CCT of eukaryotic cytosol is composed of eight different subunit species that are proposed to have independent functions in folding its *in vivo* substrates, the actins and tubulins. TCP-1 was first identified in the mouse as relevant for tail-less and embryonic lethal phenotypes. Sequences homologous to TCP-1 have been isolated in several other species, and the yeast TCP-1 has been shown to encode a molecular chaperone for Actin and Tubulin. TCP-1 found in mammalian cells and yeast plays an important role in the folding of cytosolic proteins.

CHROMOSOMAL LOCATION

Genetic locus: CCT3 (human) mapping to 1q22; Cct3 (mouse) mapping to 3 F1.

SOURCE

TCP-1 γ (V-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of TCP-1 γ 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-13875 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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

TCP-1 γ (V-14) is recommended for detection of TCP-1 γ 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).

TCP-1 γ (V-14) is also recommended for detection of TCP-1 γ in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TCP-1 γ siRNA (h): sc-36623, TCP-1 γ siRNA (m): sc-36624, TCP-1 γ shRNA Plasmid (h): sc-36623-SH, TCP-1 γ shRNA Plasmid (m): sc-36624-SH, TCP-1 γ shRNA (h) Lentiviral Particles: sc-36623-V and TCP-1 γ shRNA (m) Lentiviral Particles: sc-36624-V.

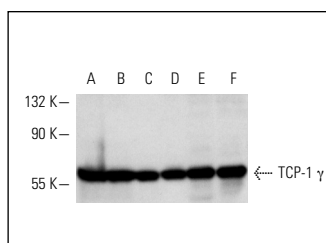
Molecular Weight of TCP-1 γ : 57 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, F9 cell lysate: sc-2245 or mouse testis extract: sc-2405.

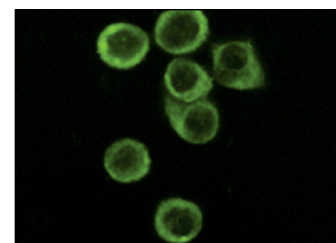
RECOMMENDED SECONDARY REAGENTS

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

DATA



TCP-1 γ (V-14): sc-13875. Western blot analysis of TCP-1 γ expression in HeLa (A), F9 (B), Hs 181.Tes (C) and Cates-1b whole cell lysates (D) and mouse testis (E) and rat testis (F) extracts.



TCP-1 γ (V-14): sc-13875. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

RESEARCH USE

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


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Try **TCP-1 γ (F-3): sc-271336**, our highly recommended monoclonal alternative to TCP-1 γ (V-14).